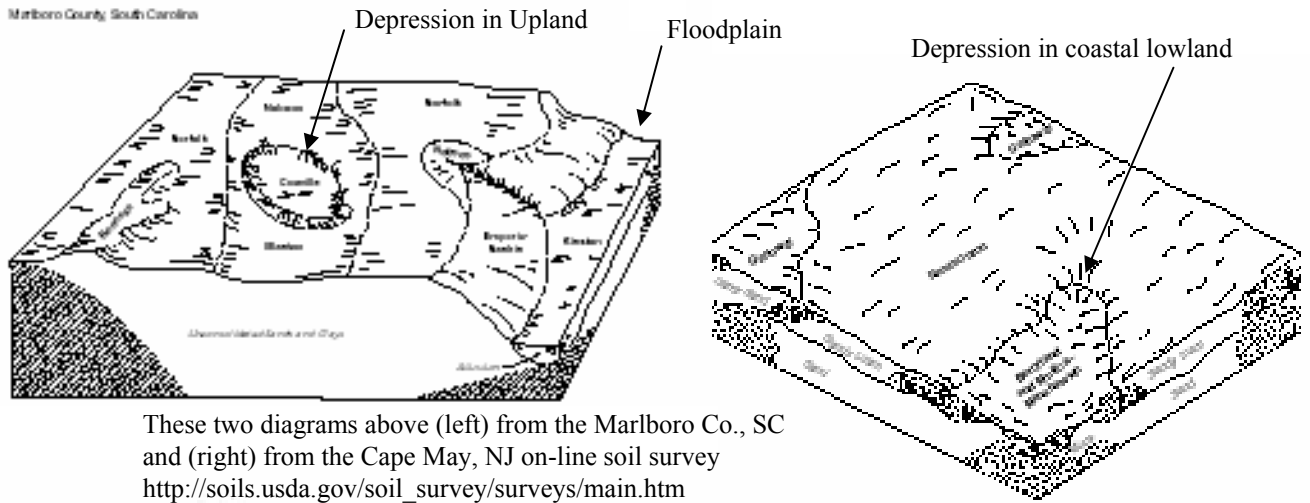


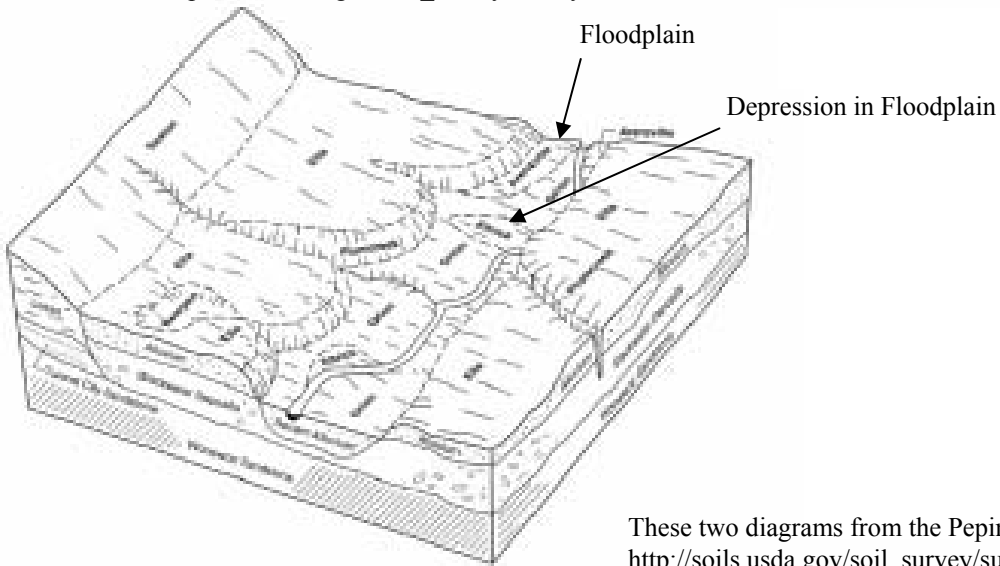
# Field Indicators of Hydric Soils

Ver. 5.0  
2002

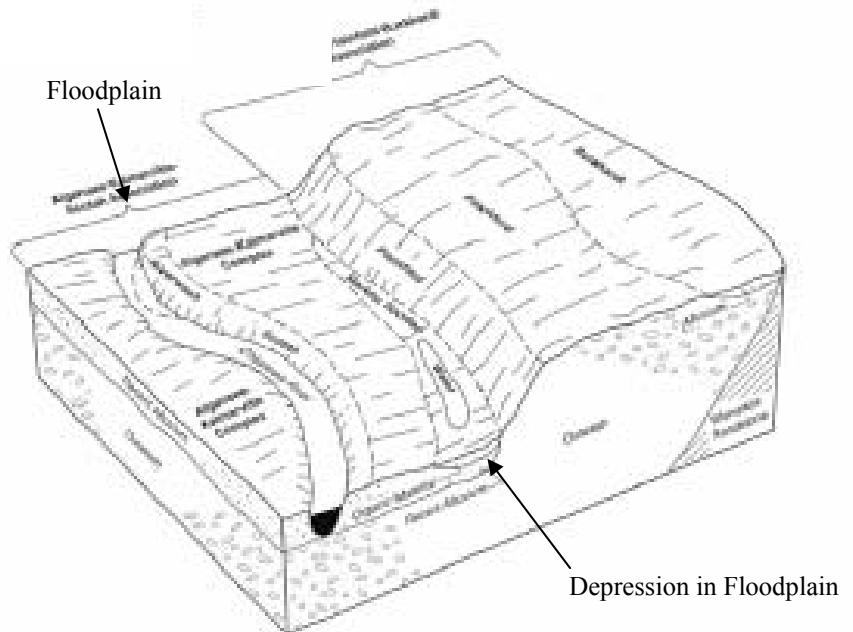
Charts by John M. Galbraith, Virginia Tech, and  
Martin C. Rabenhorst, University of Maryland  
2/01/03



These two diagrams above (left) from the Marlboro Co., SC and (right) from the Cape May, NJ on-line soil survey [http://soils.usda.gov/soil\\_survey/surveys/main.htm](http://soils.usda.gov/soil_survey/surveys/main.htm)



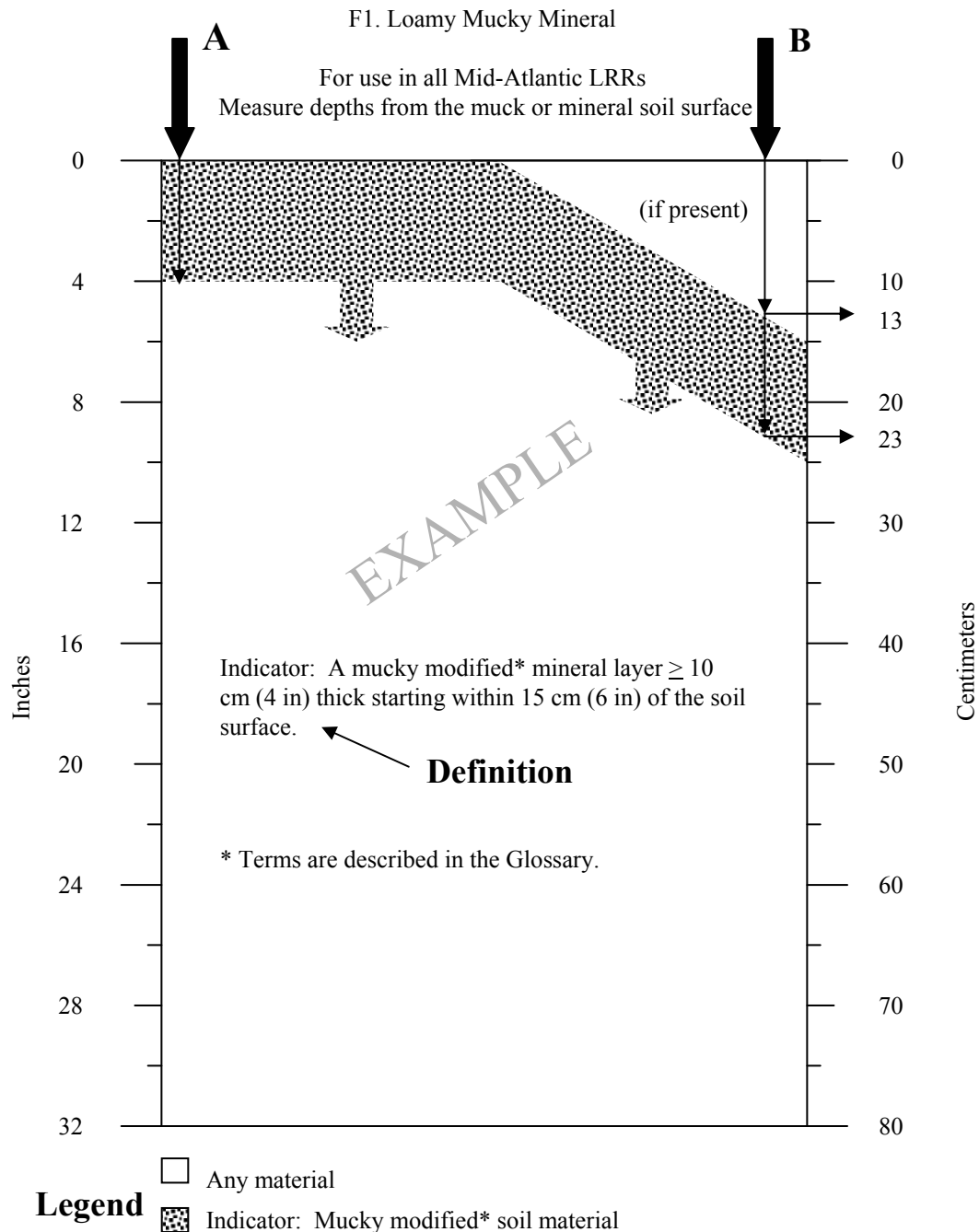
These two diagrams from the Pepin Co., WI on-line soil survey [http://soils.usda.gov/soil\\_survey/surveys/main.htm](http://soils.usda.gov/soil_survey/surveys/main.htm)



## Landscape Diagrams

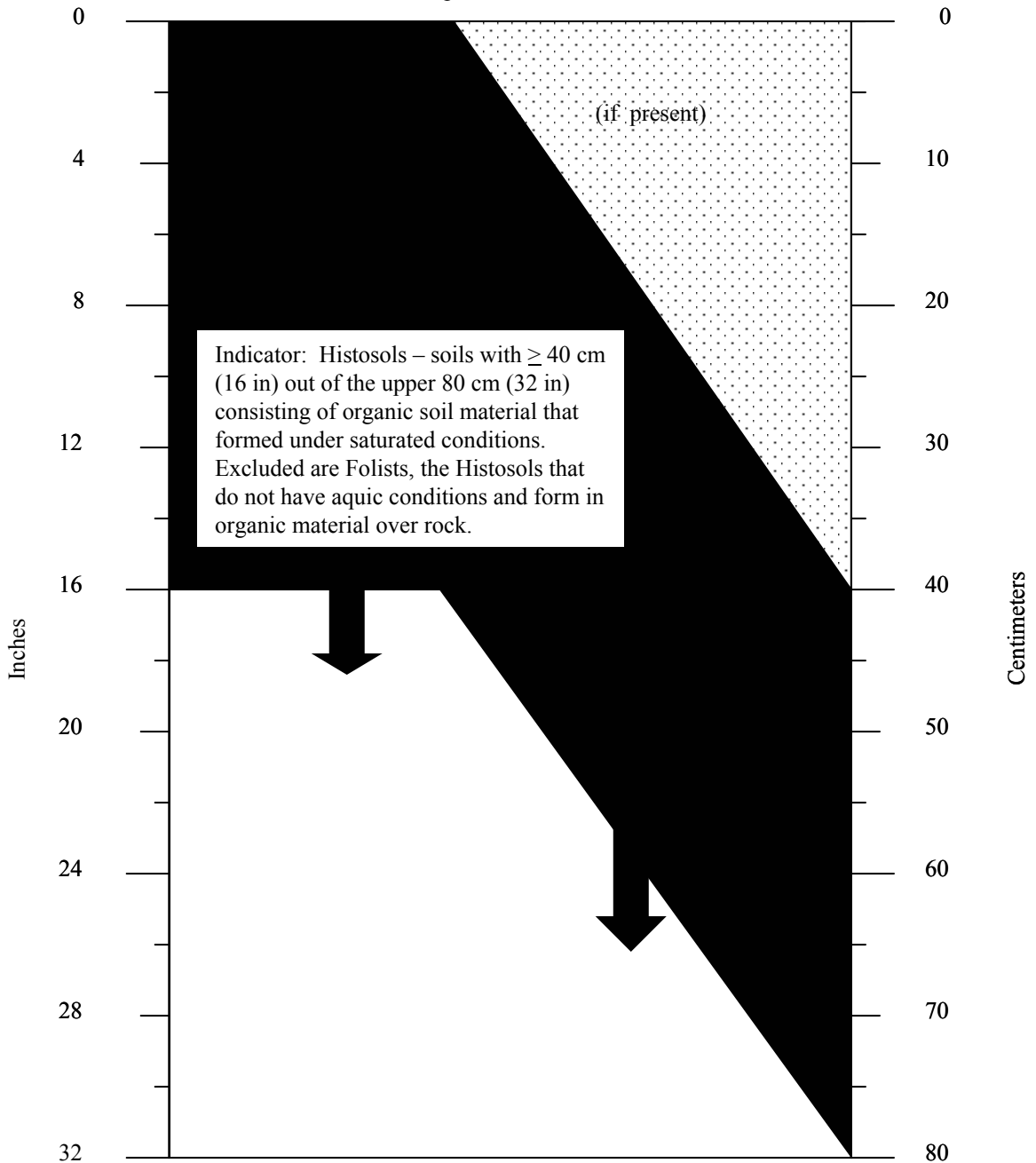
# Guide to Using these Charts


1. Read directly down at any point to determine the thickness and depth requirements
2. At **Point A** below, the indicator must start at the surface and continue to  $\geq 10$  cm
3. At **Point B** below, the indicator starts at 13 cm and must continue to  $\geq 23$  cm
4. Layers with maximum thickness are drawn to scale (no extension arrows)
5. Layers with no maximum thickness are drawn to scale to show the minimum thickness and arrows that indicate there is no maximum limit.





# A1. Histosol

For use in all Mid-Atlantic LRRs  
Measure depths from the soil surface



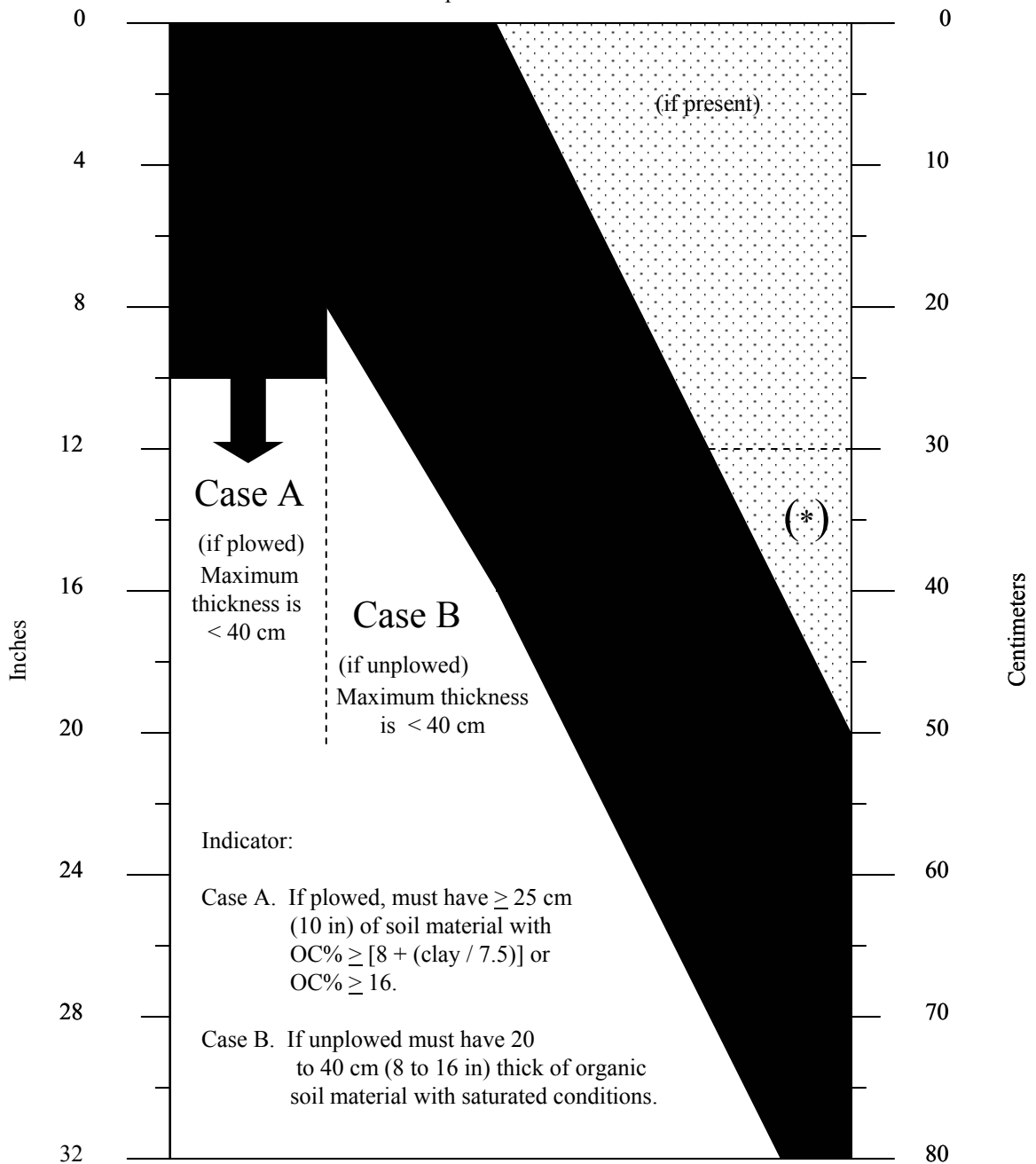
 Any soil material that may be present must have dominant chroma  $\leq 2$ ; or layers with chroma  $> 2$  must total  $< 15$  cm thick


 Indicator: 50% or more of the volume is layer(s) of organic soil material that formed under saturated conditions

 Any material


## A2. Histic Epipedon

For use in all Mid-Atlantic LRRs  
Measure depths from the soil surface



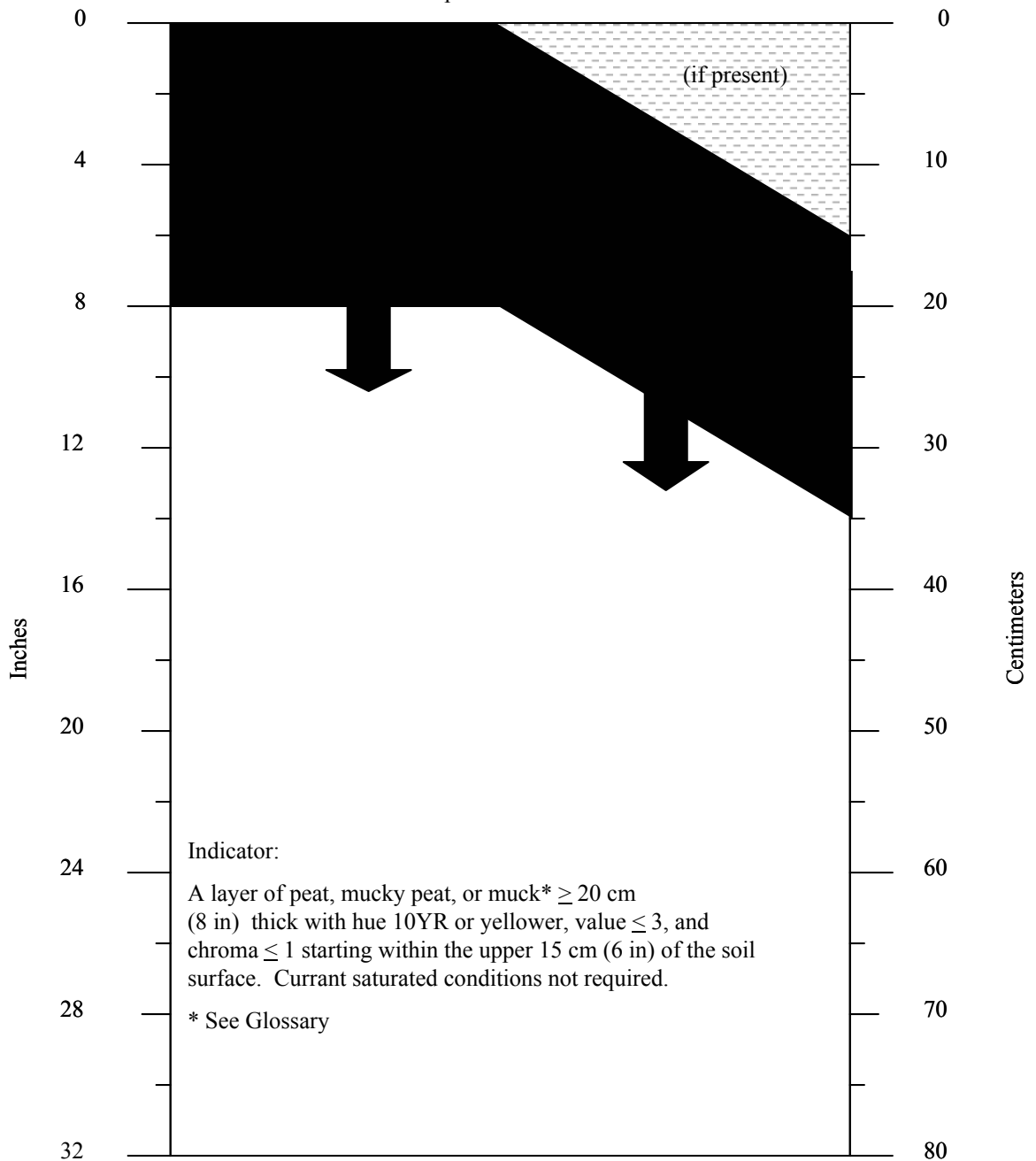
-  Any soil material that may be present must have dominant chroma  $\leq 2$ ; or layers with chroma  $> 2$  must total  $< 15$  cm thick
- \* if 30-50 cm thick, the thickness of the soil above the Indicator is less than the sum thickness of diagnostic horizons that have been buried

 Indicator: Unplowed or plowed Histic epipedon with saturated conditions

 Any material; organic soil materials must not have the thickness requirements of A1 (Histosols).

### A3. Black Histic

For use in all Mid-Atlantic LRRs  
Measure depths from the soil surface



Any soil material



Indicator: Peat, mucky peat, or muck\* (saturated conditions not required)

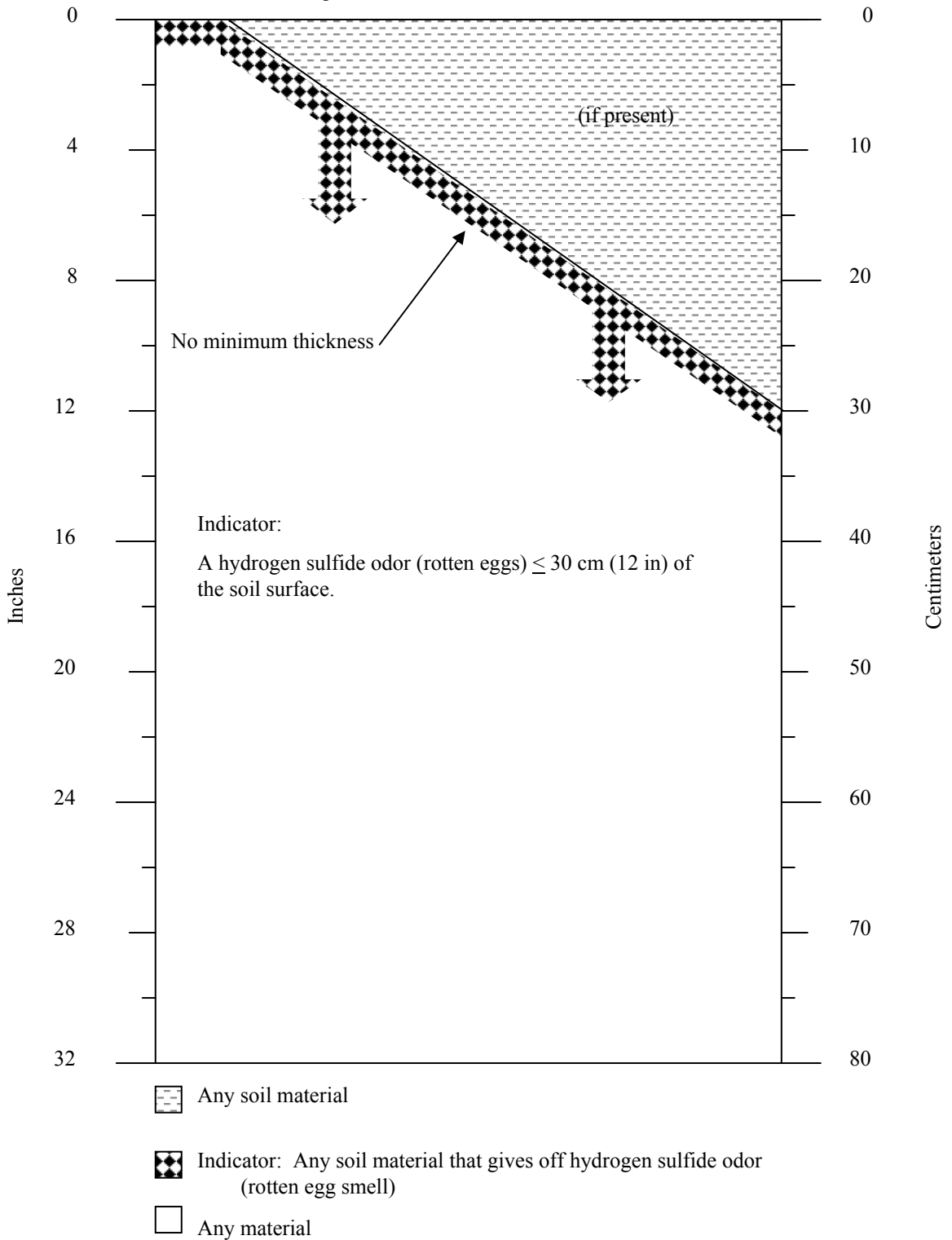


Any material; organic soil materials must not have the thickness requirements of A1 (Histosols).

#### A4. Hydrogen Sulfide

For use in all Mid-Atlantic LRRs

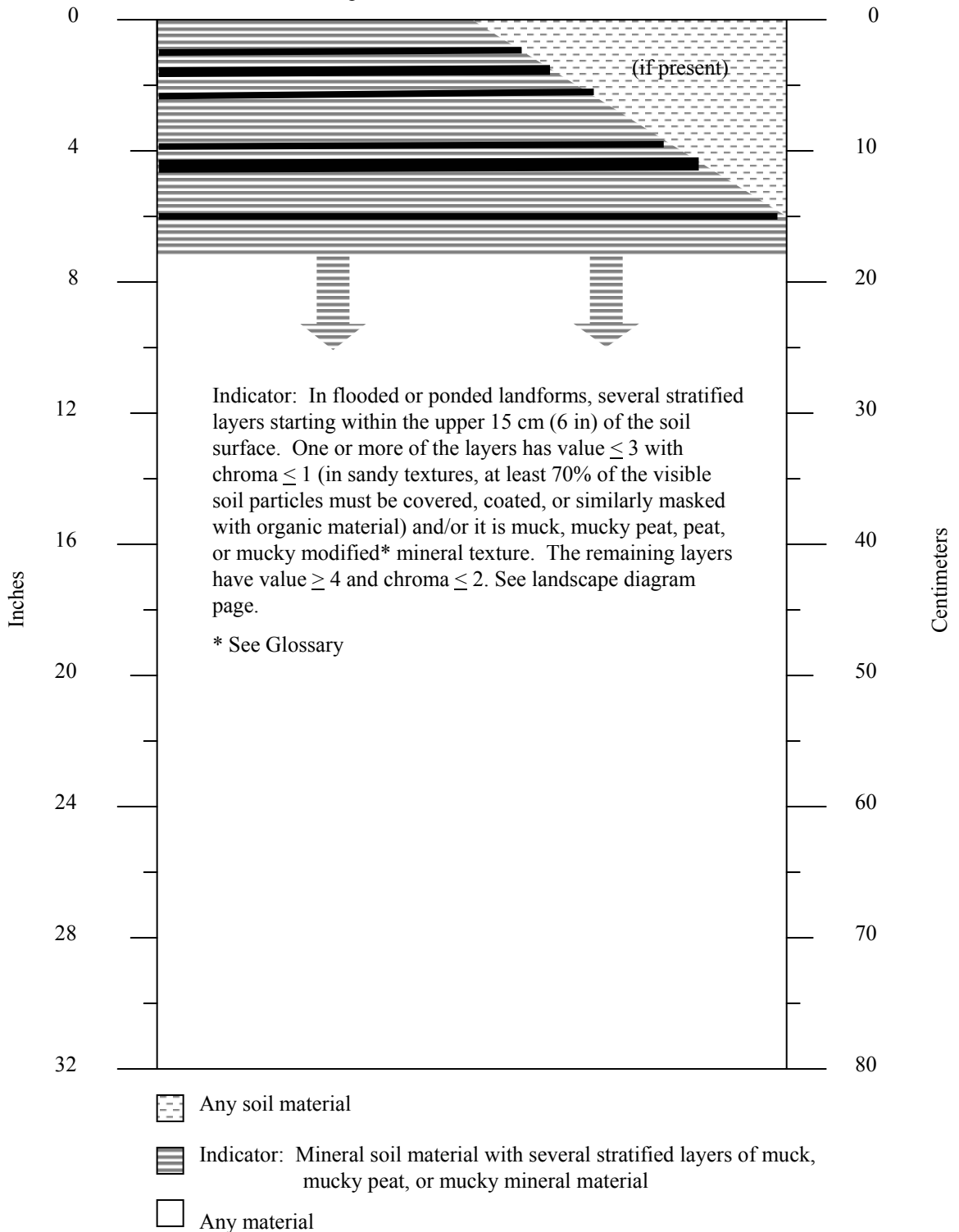
Measure depths from the muck or mineral soil surface



## A5. Stratified Layers

For use in all Mid-Atlantic LRRs

Measure depths from the muck or mineral soil surface

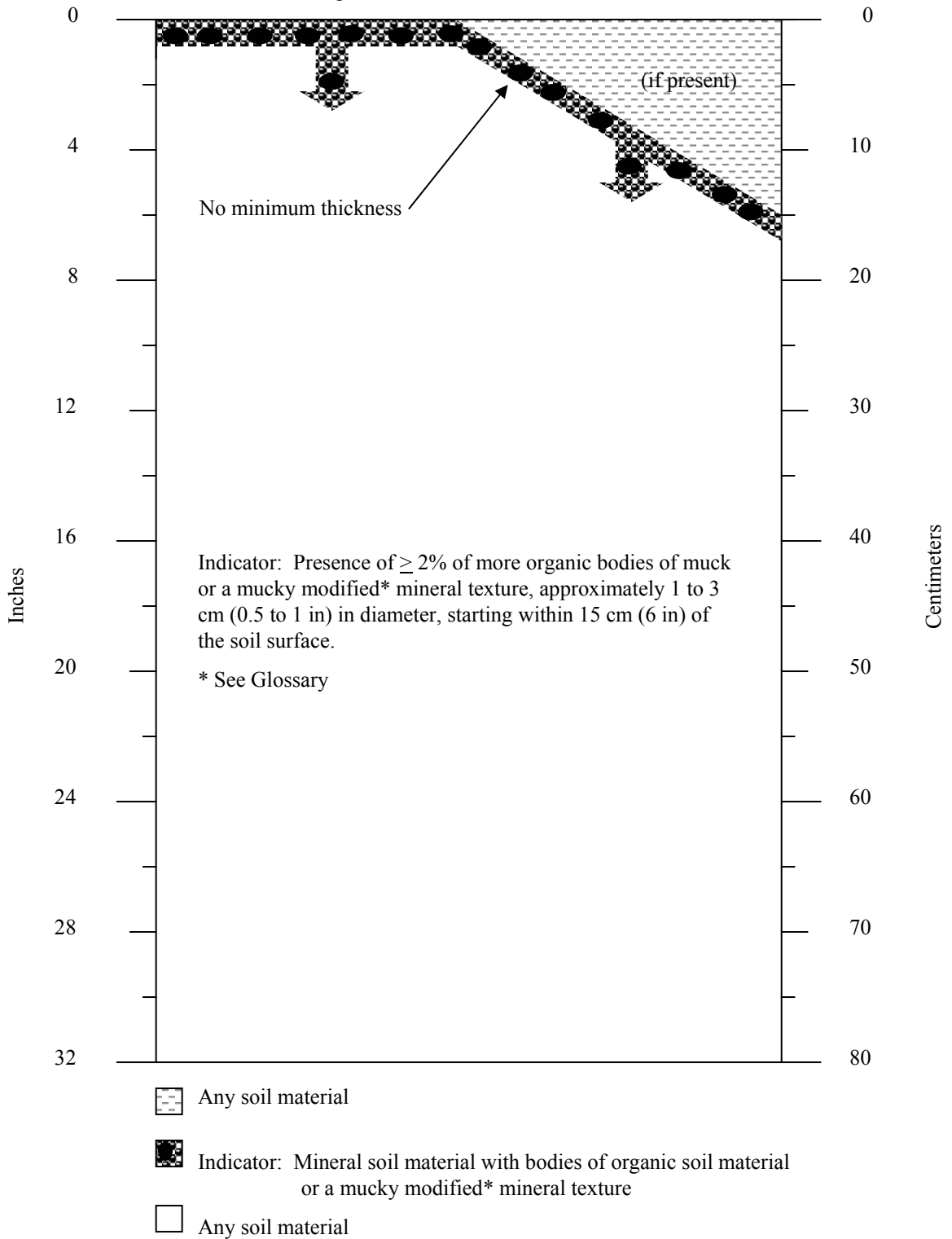




## A6. Organic Bodies

For use in LRRs P and T

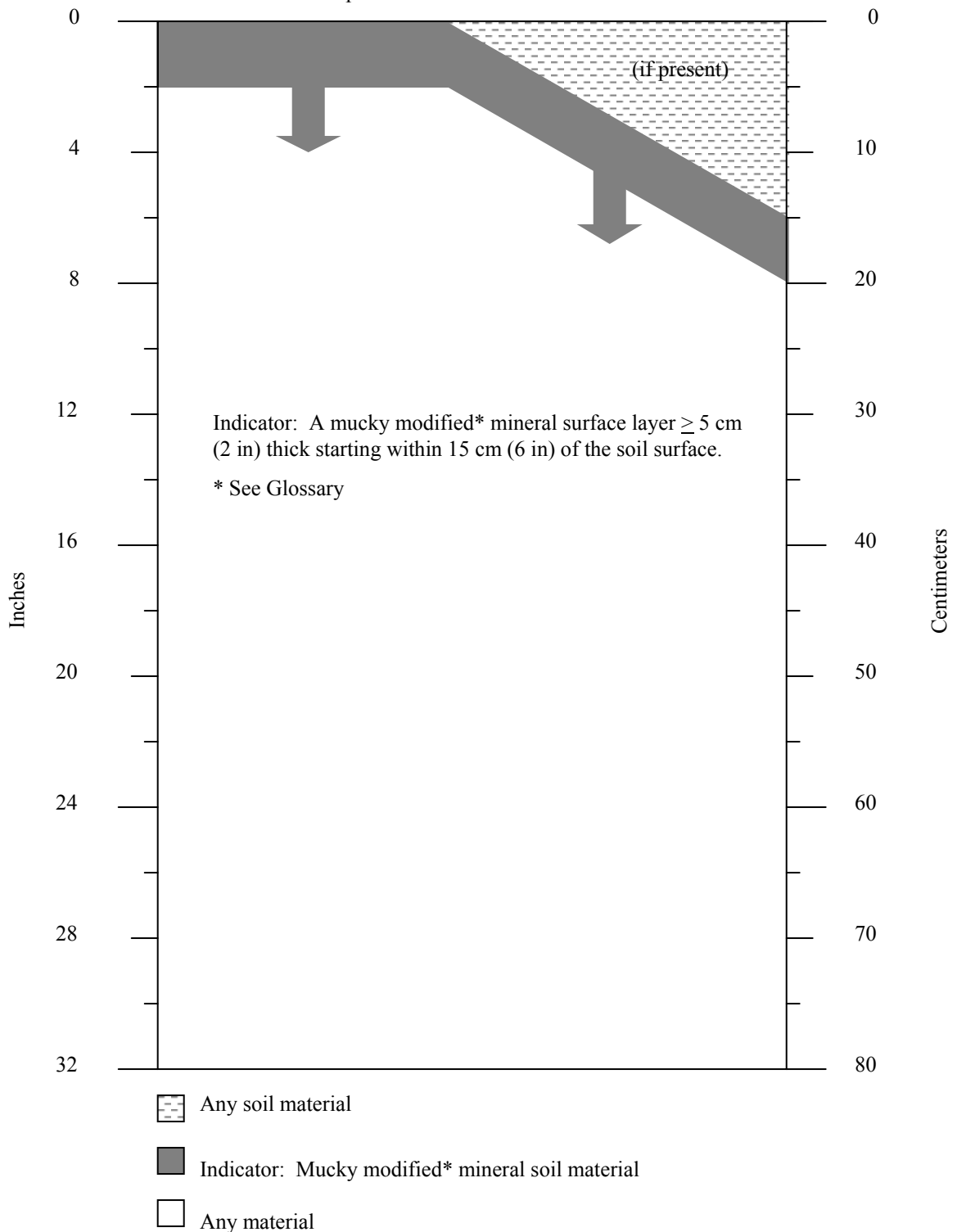
Measure depths from the muck or mineral soil surface



# A7. 5cm Mucky Mineral

For use in LRRs P and T

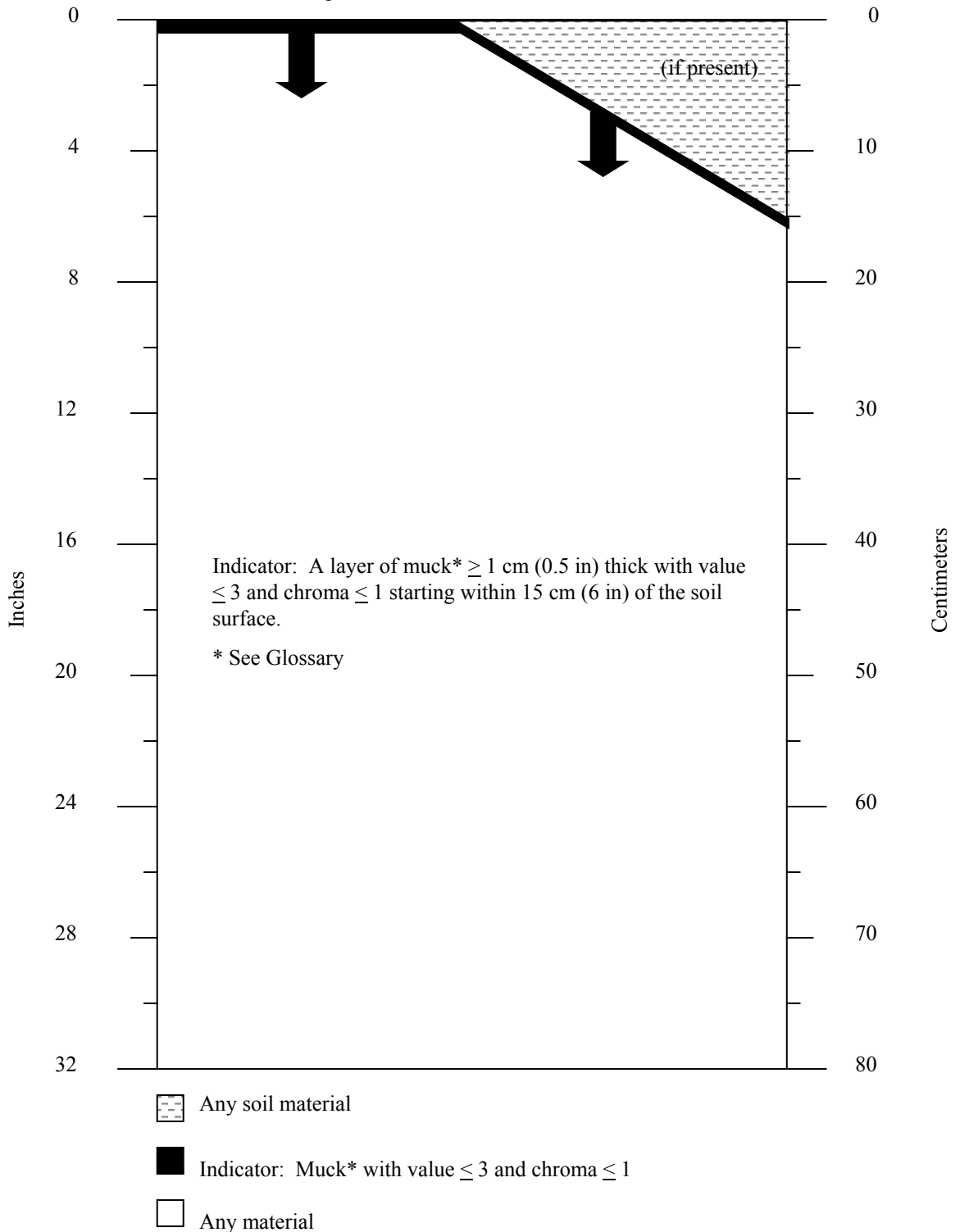
Measure depths from the muck or mineral soil surface



# A9. 1cm Muck

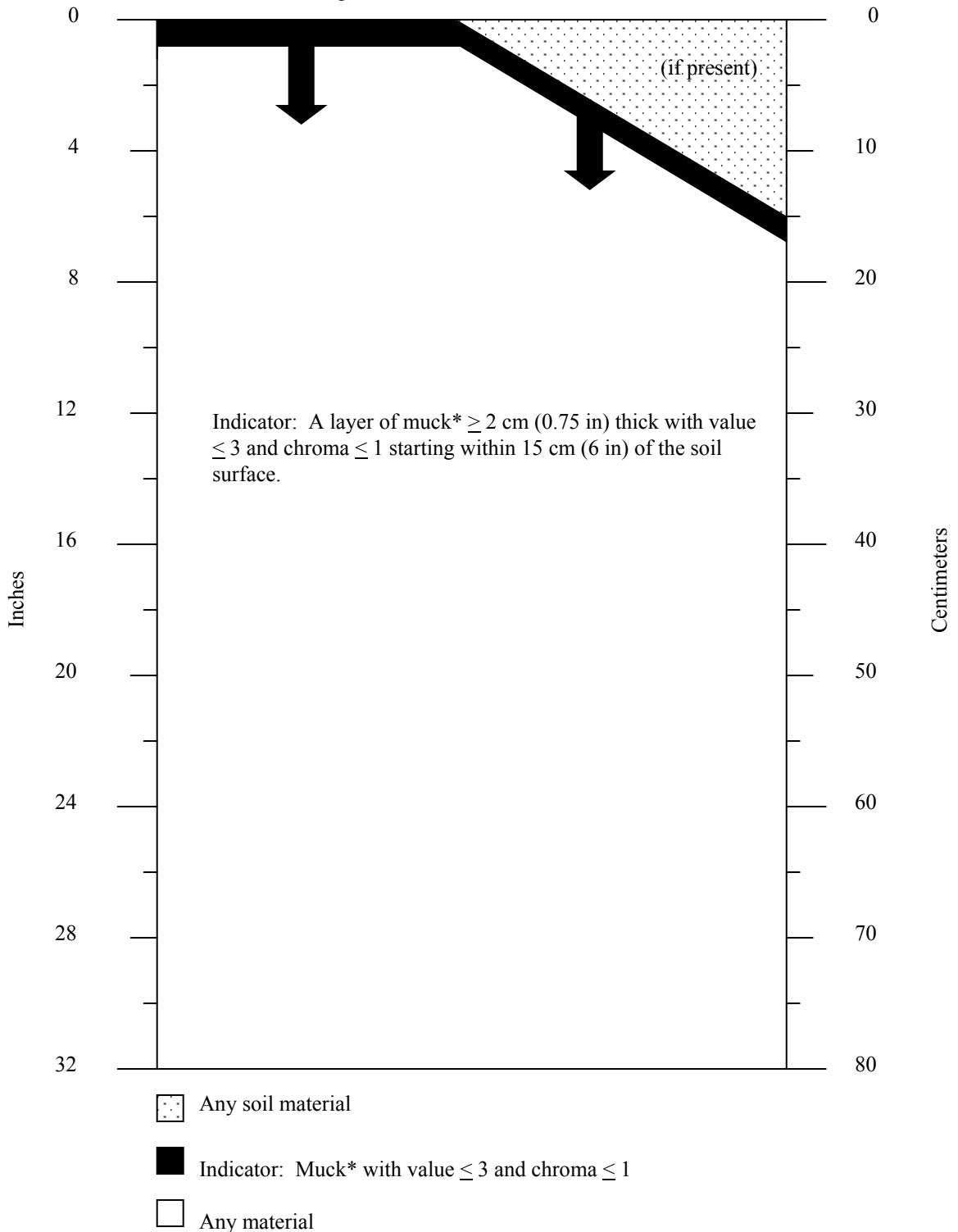
For use in LRRs P and T

Measure depths from the muck or mineral soil surface



# A10. 2cm Muck

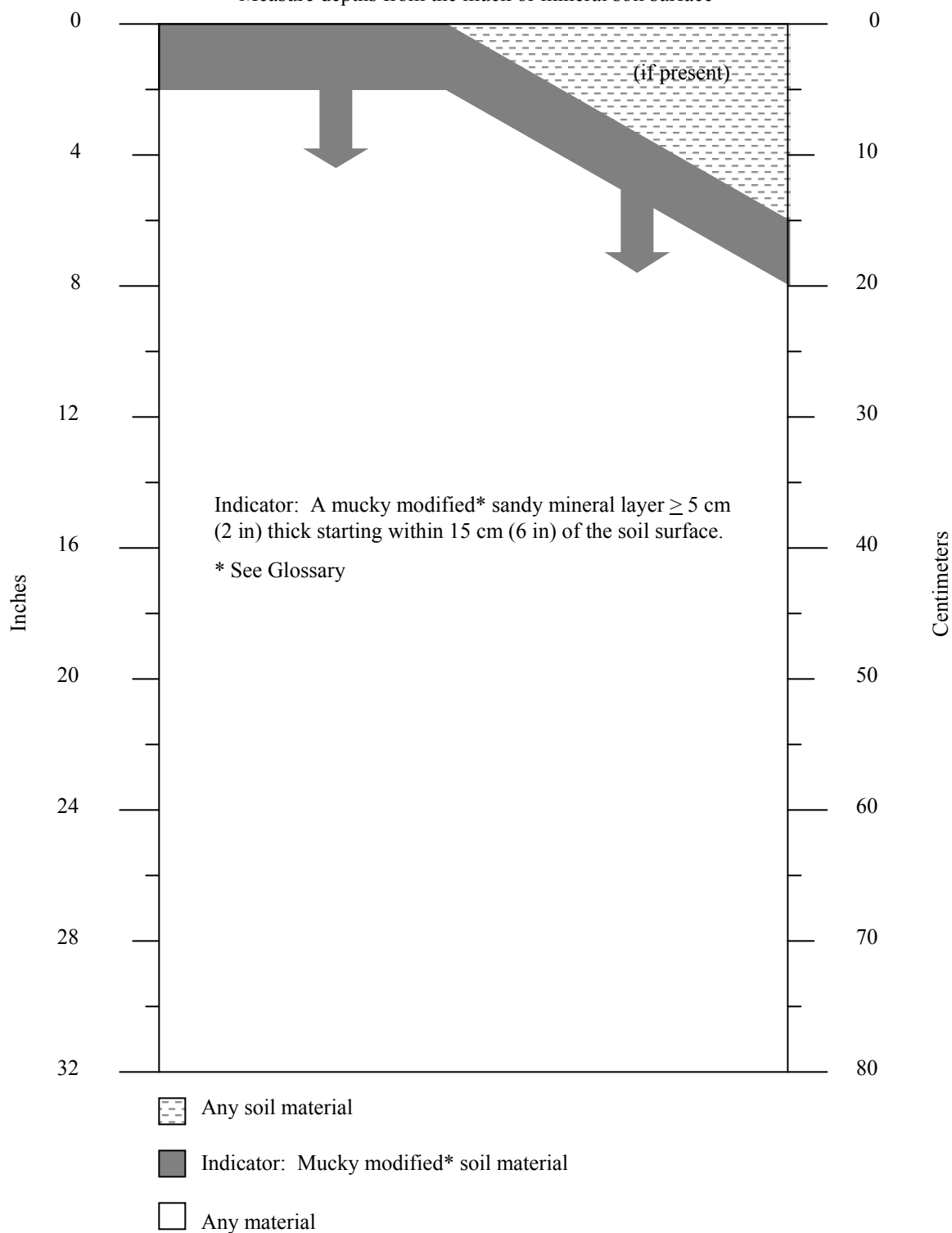
For use in LRR N; for testing in LRR L, R, S  
Measure depths from the muck or mineral soil surface



# S1. Sandy Mucky Mineral

For use in all Mid-Atlantic LRRs

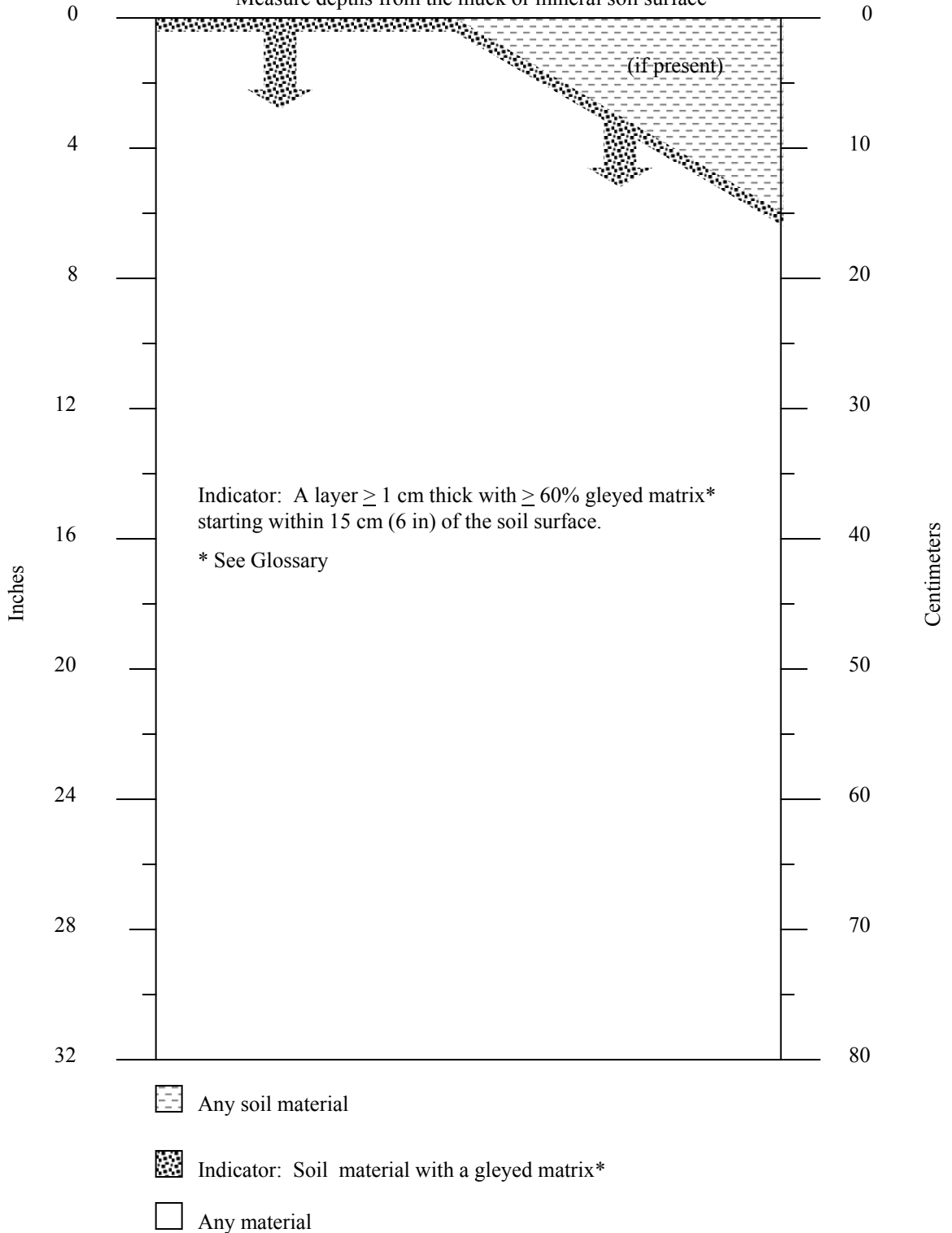
Measure depths from the muck or mineral soil surface



#### S4. Sandy Gleyed Matrix

For use in all Mid-Atlantic LRRs

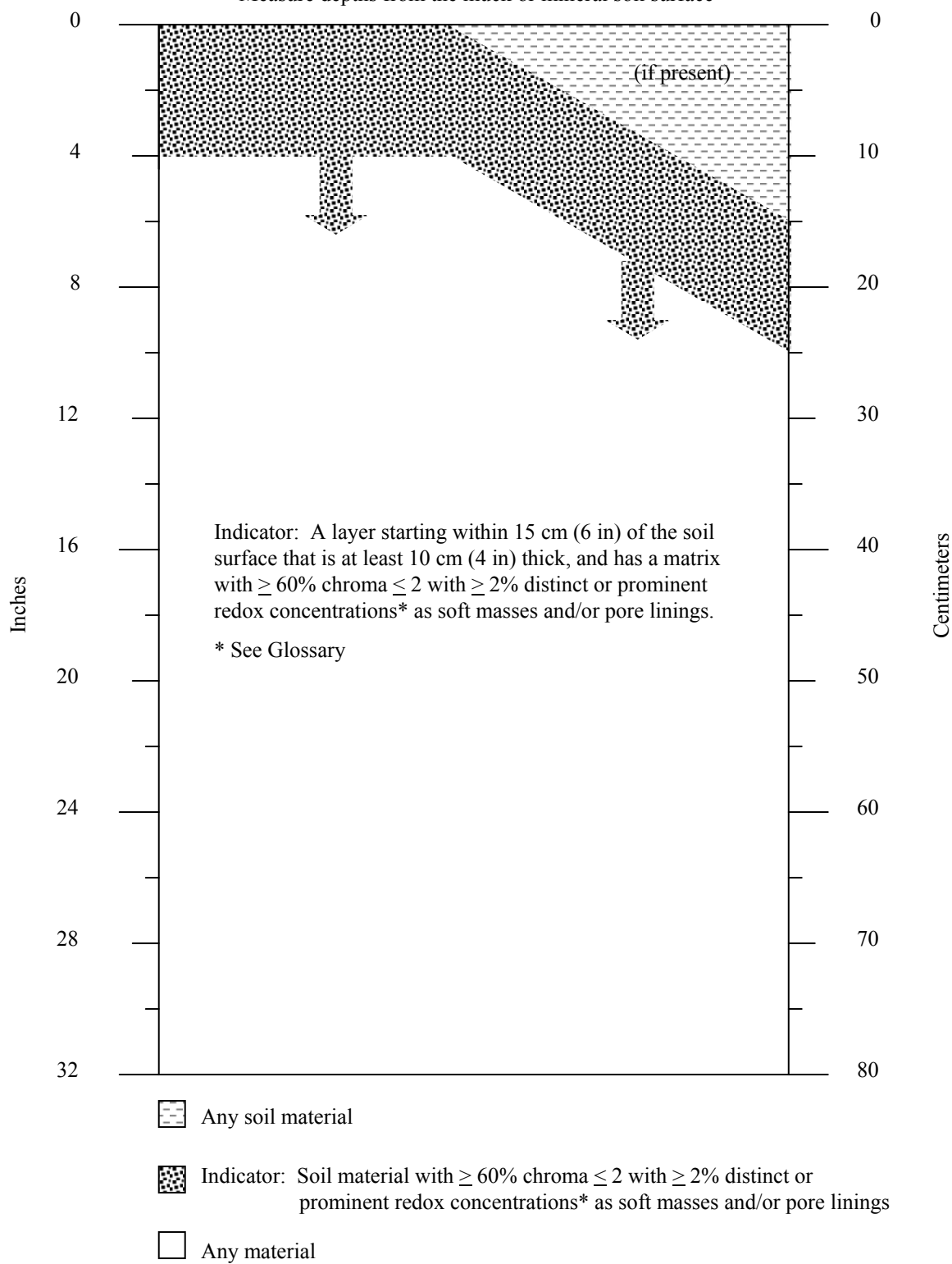
Measure depths from the muck or mineral soil surface



## S5. Sandy Redox

For use in all Mid-Atlantic LRRs

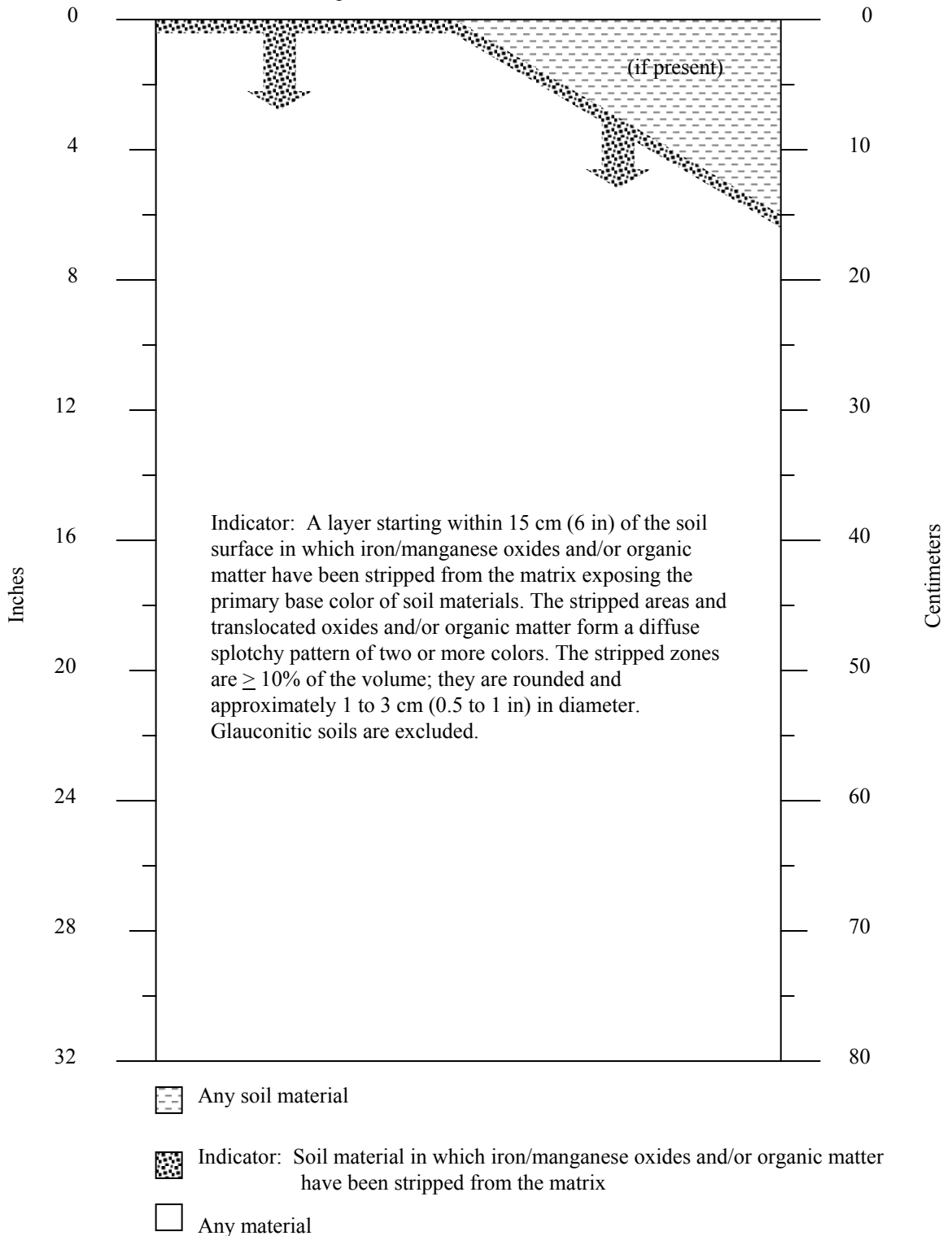
Measure depths from the muck or mineral soil surface



## S6. Stripped Matrix

For use in all Mid-Atlantic LRRs

Measure depths from the muck or mineral soil surface

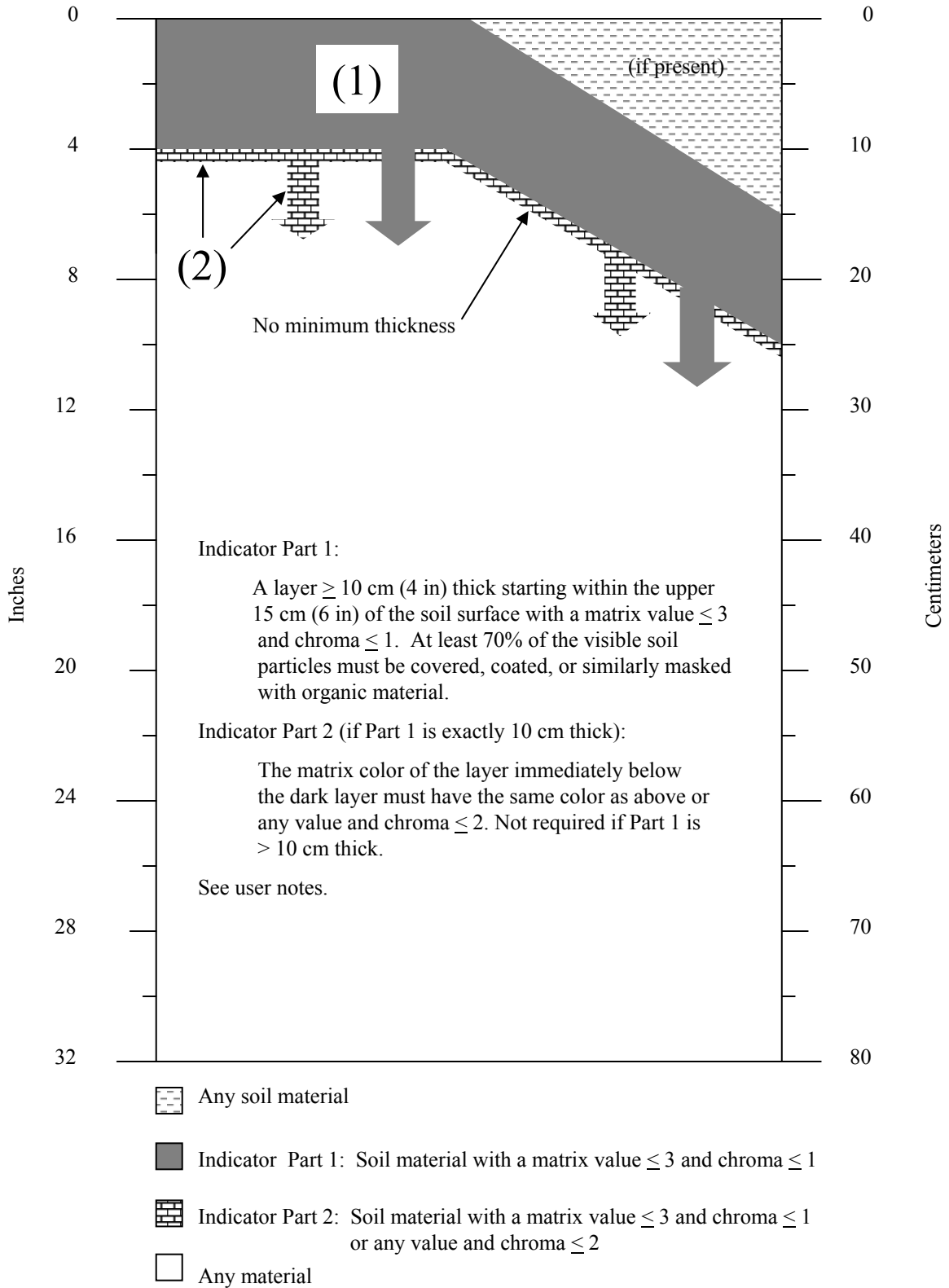




## S7. Dark Surface

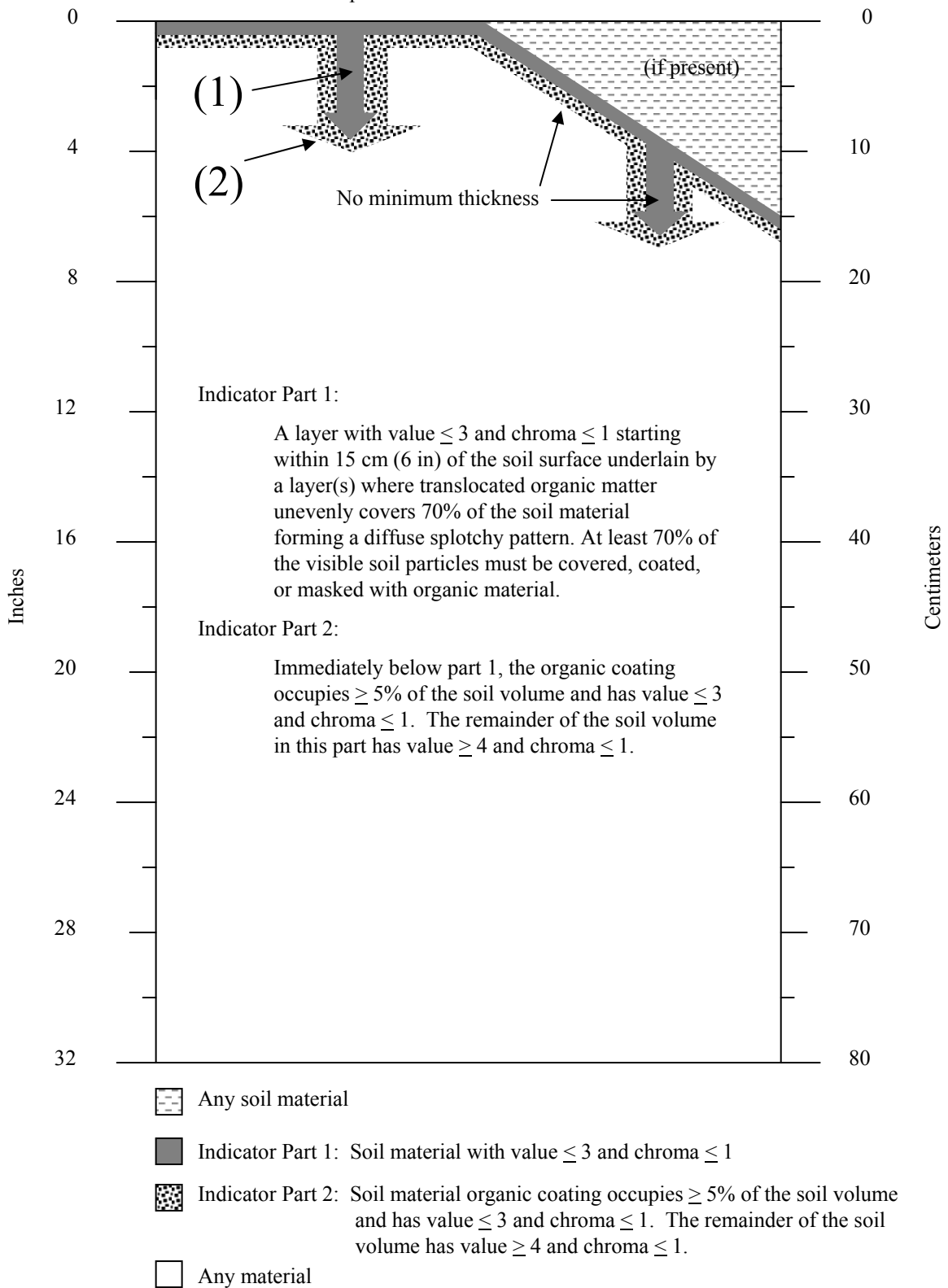
For use in LRRs N, P, R, S, T

Measure depths from the muck or mineral soil surface



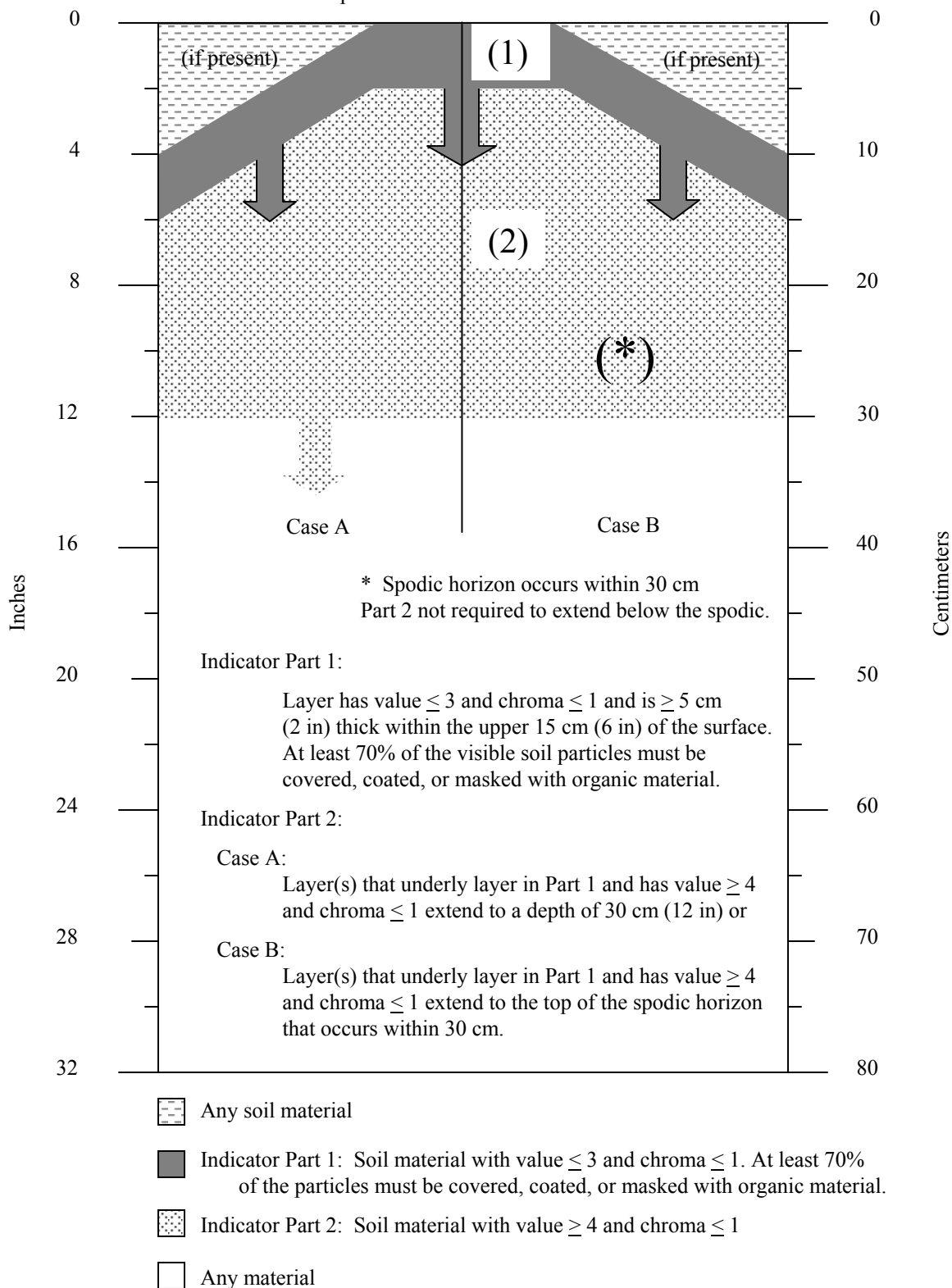
## S8. Polyvalue Below Surface

For use in LRRs R, S, and T; for testing in LRR L  
Measure depths from the muck or mineral soil surface



## S9. Thin Dark Surface

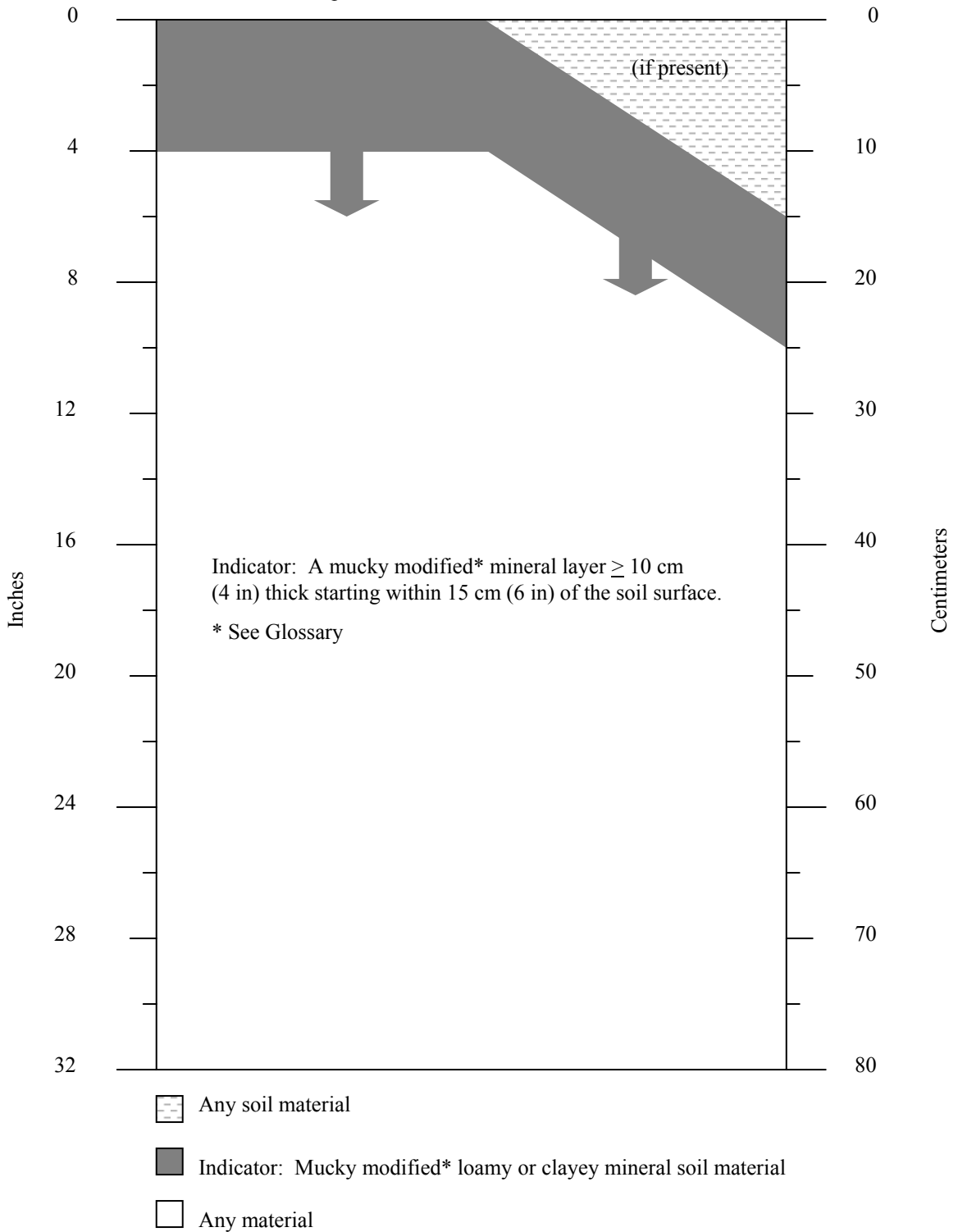
For use in LRRs R, S, and T; for testing in LRR L  
Measure depths from the muck or mineral soil surface



# F1. Loamy Mucky Mineral

For use in LRR L

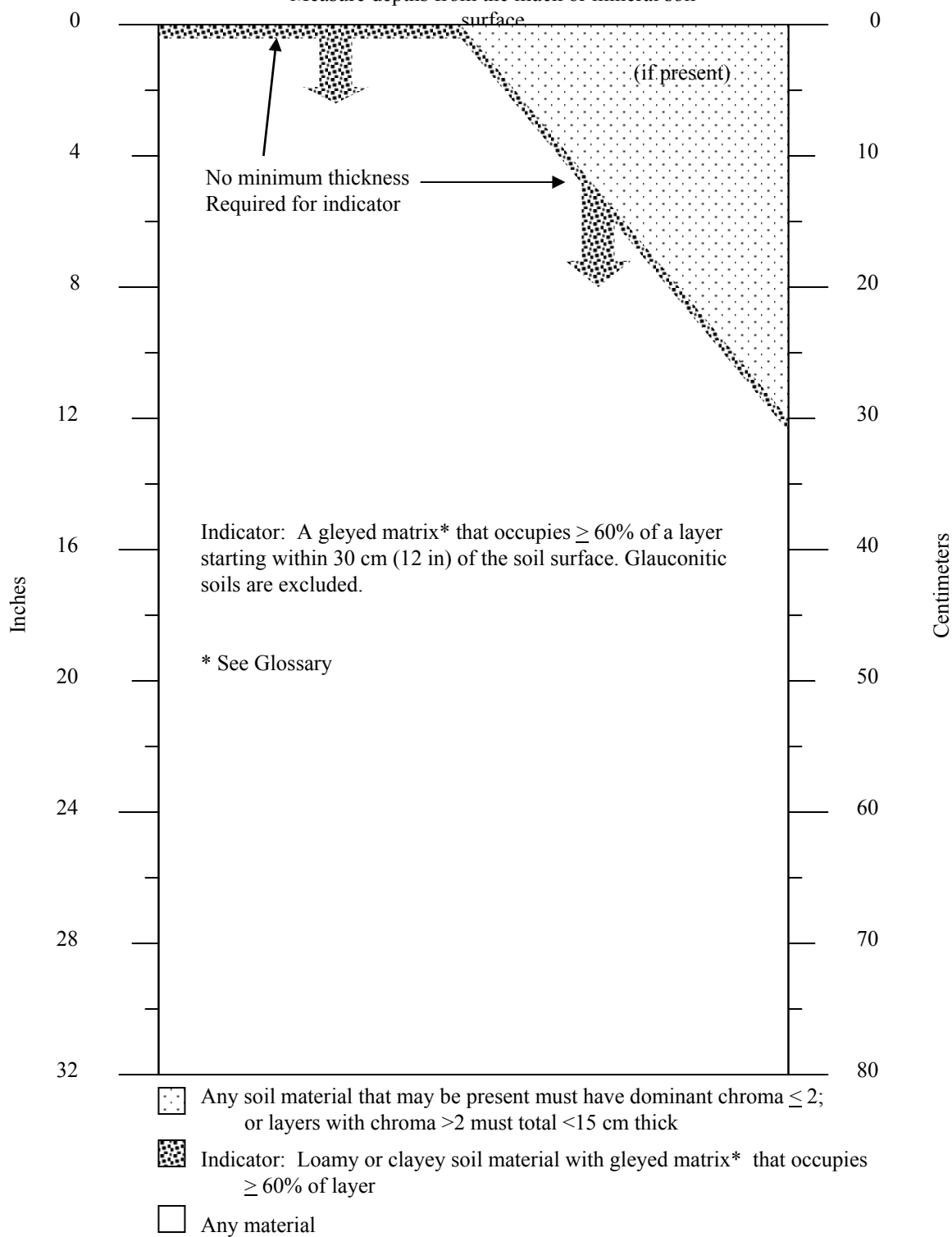
Measure depths from the muck or mineral soil surface



## F2. Loamy Gleyed Matrix

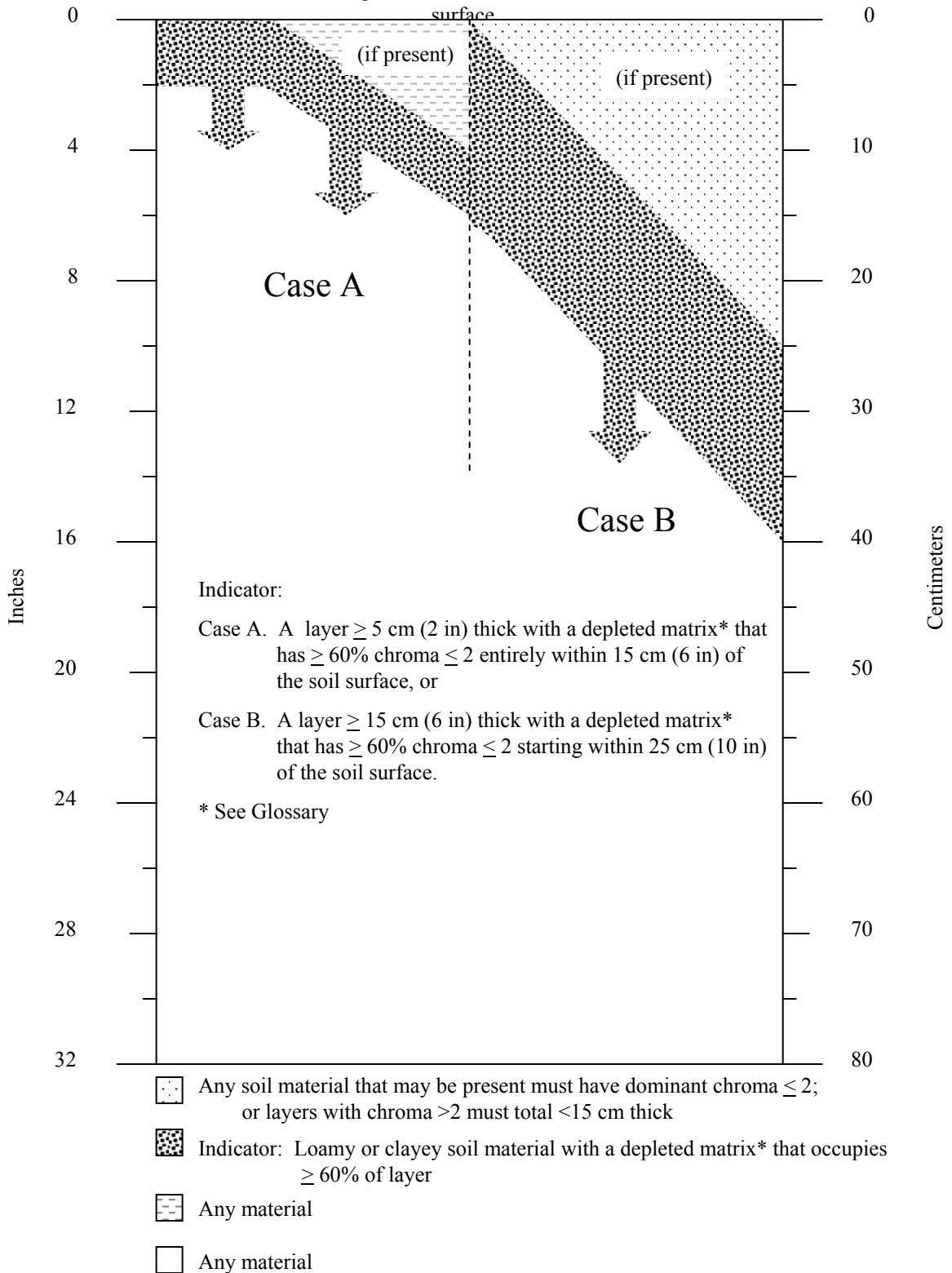
For use in all Mid-Atlantic LRRs

Measure depths from the muck or mineral soil



### F3. Depleted Matrix

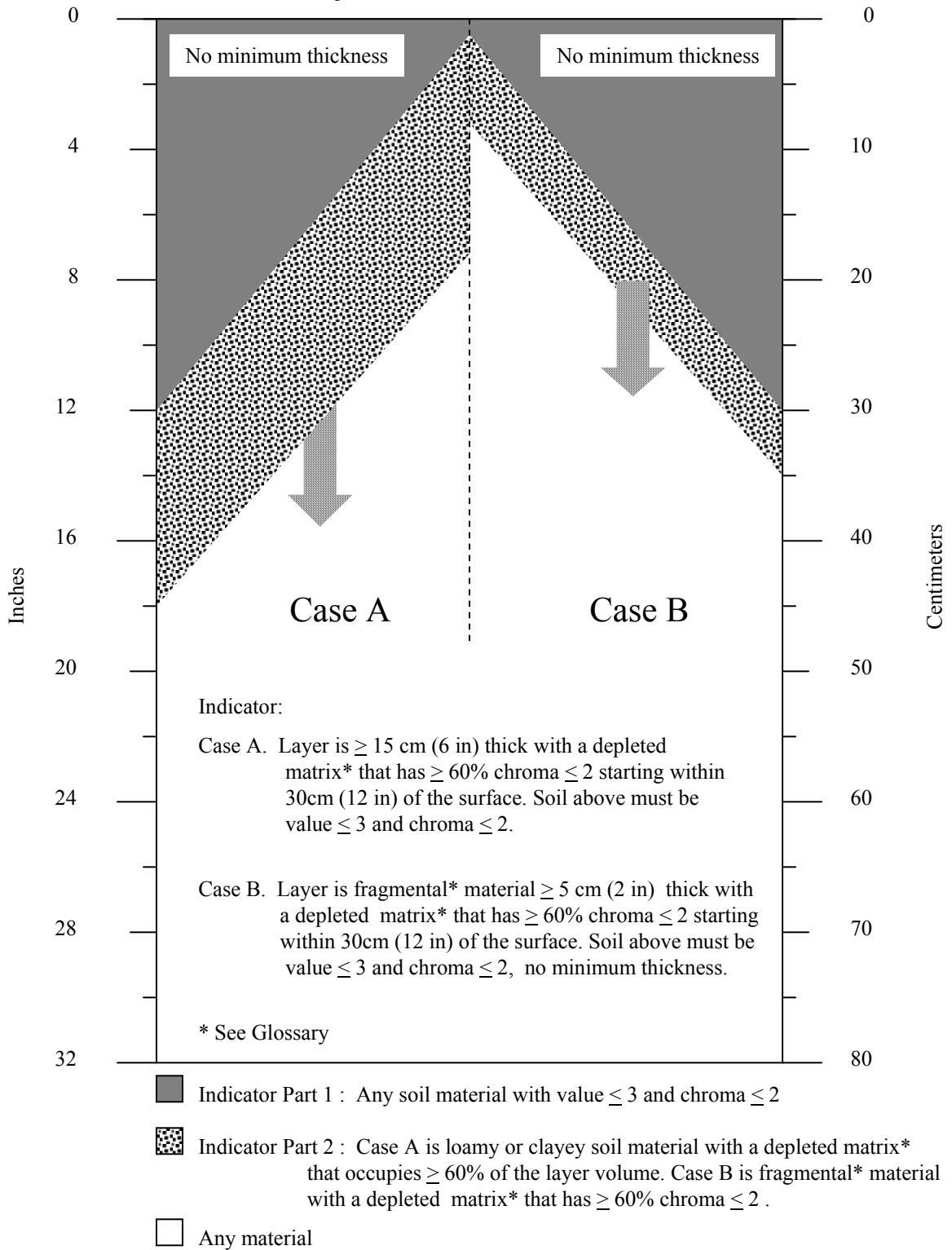
For use in all Mid-Atlantic LRRs  
Measure depths from the muck or mineral soil surface



#### F4. Depleted Below Dark Surface

For use in all Mid-Atlantic LRRs

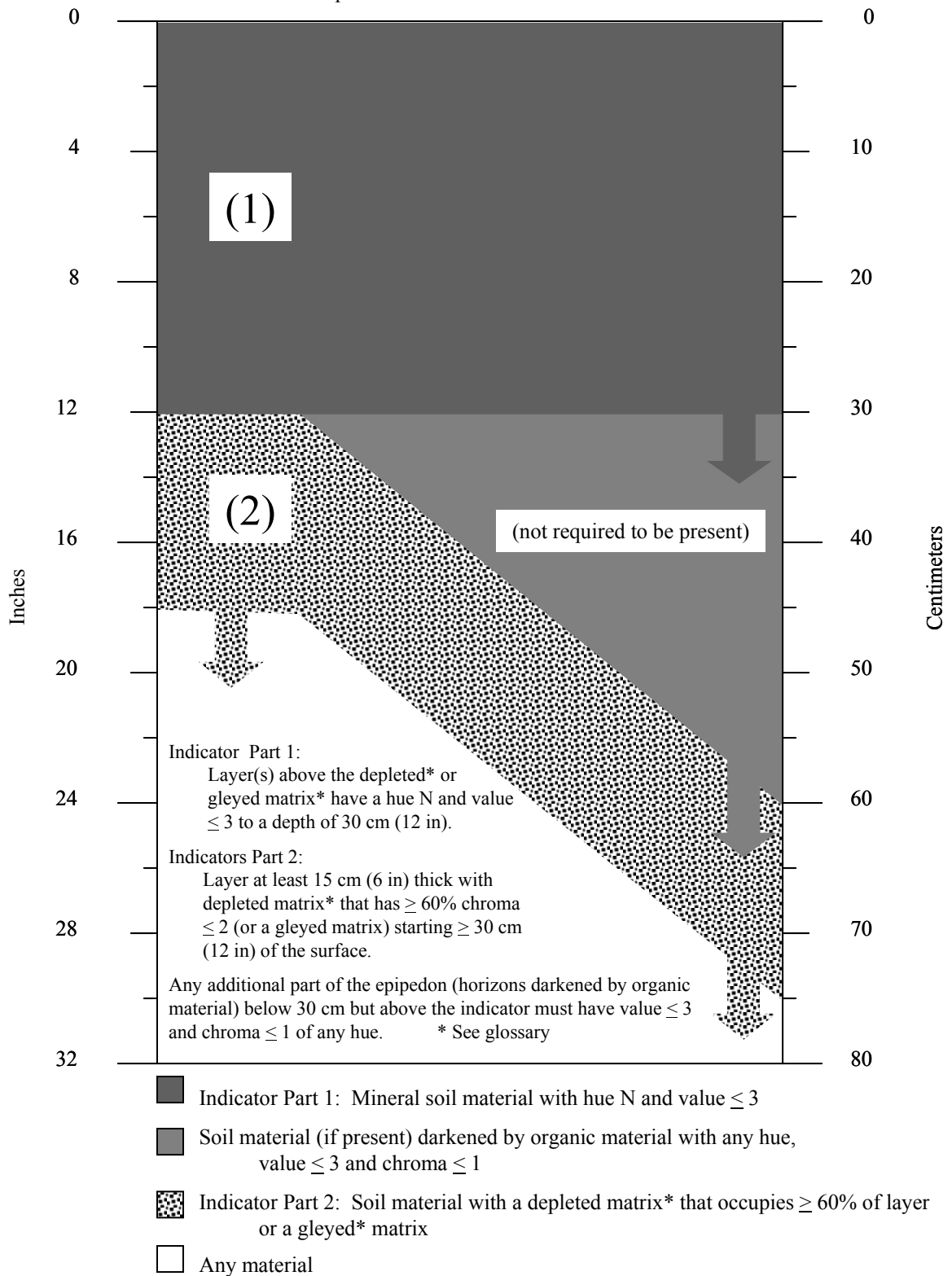
Measure depths from the muck or mineral soil surface



## F5. Thick Dark Surface

For use in all Mid-Atlantic LRRs

Measure depths from the muck or mineral soil surface

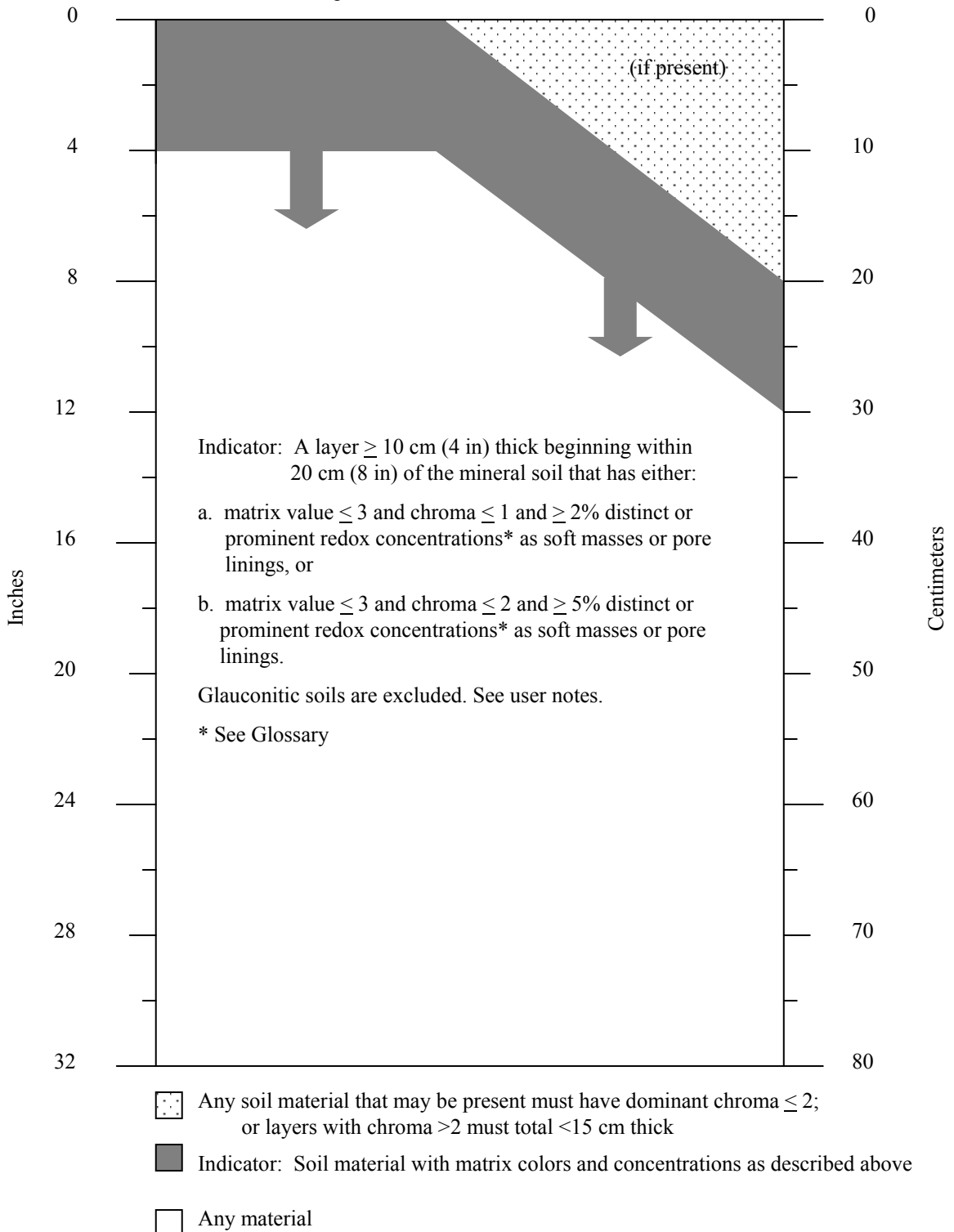




## F6. Redox Dark Surface

For use in all Mid-Atlantic LRRs

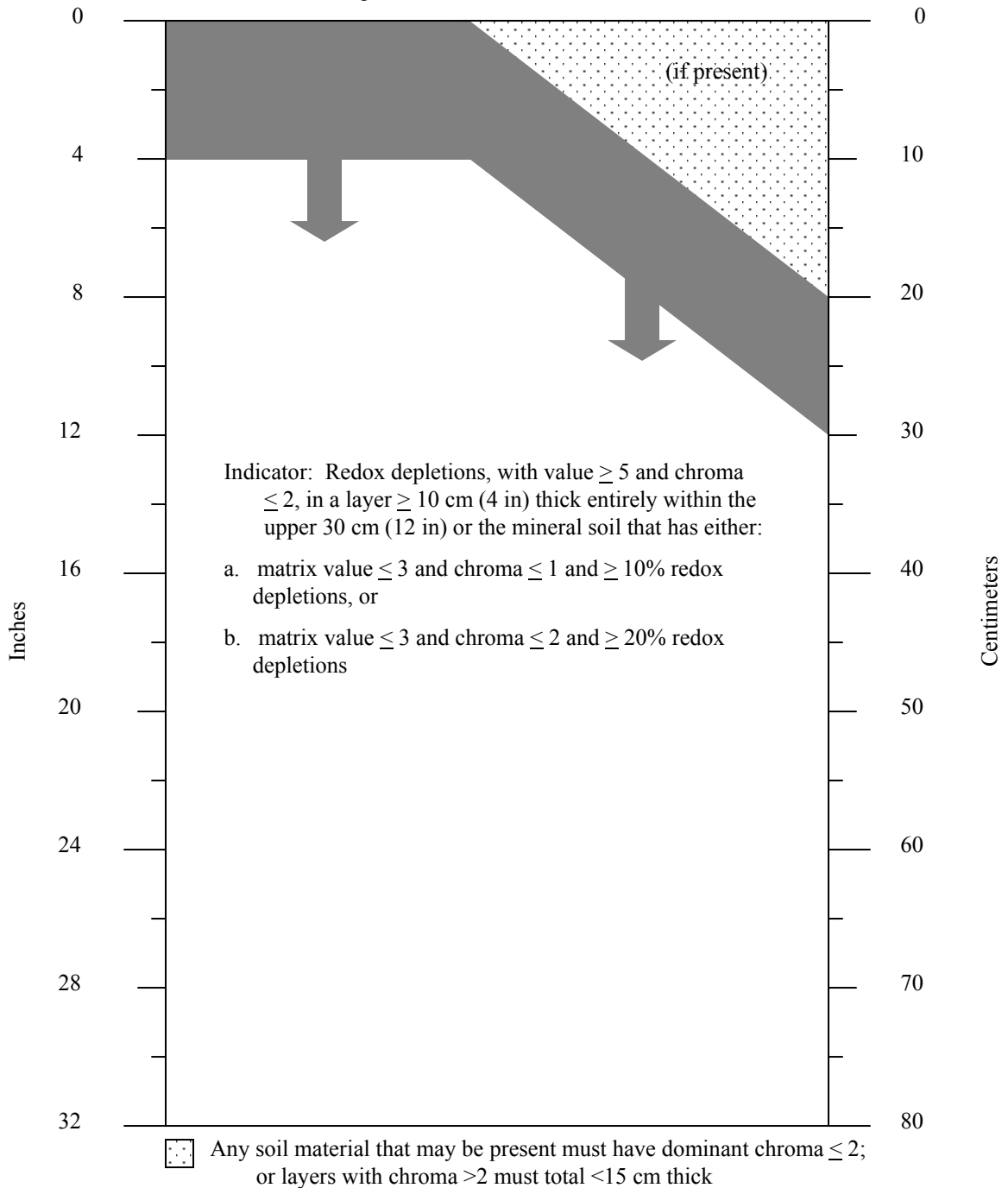
Measure depths from the muck or mineral soil surface



## F7. Depleted Dark Surface

For use in all Mid-Atlantic LRRs

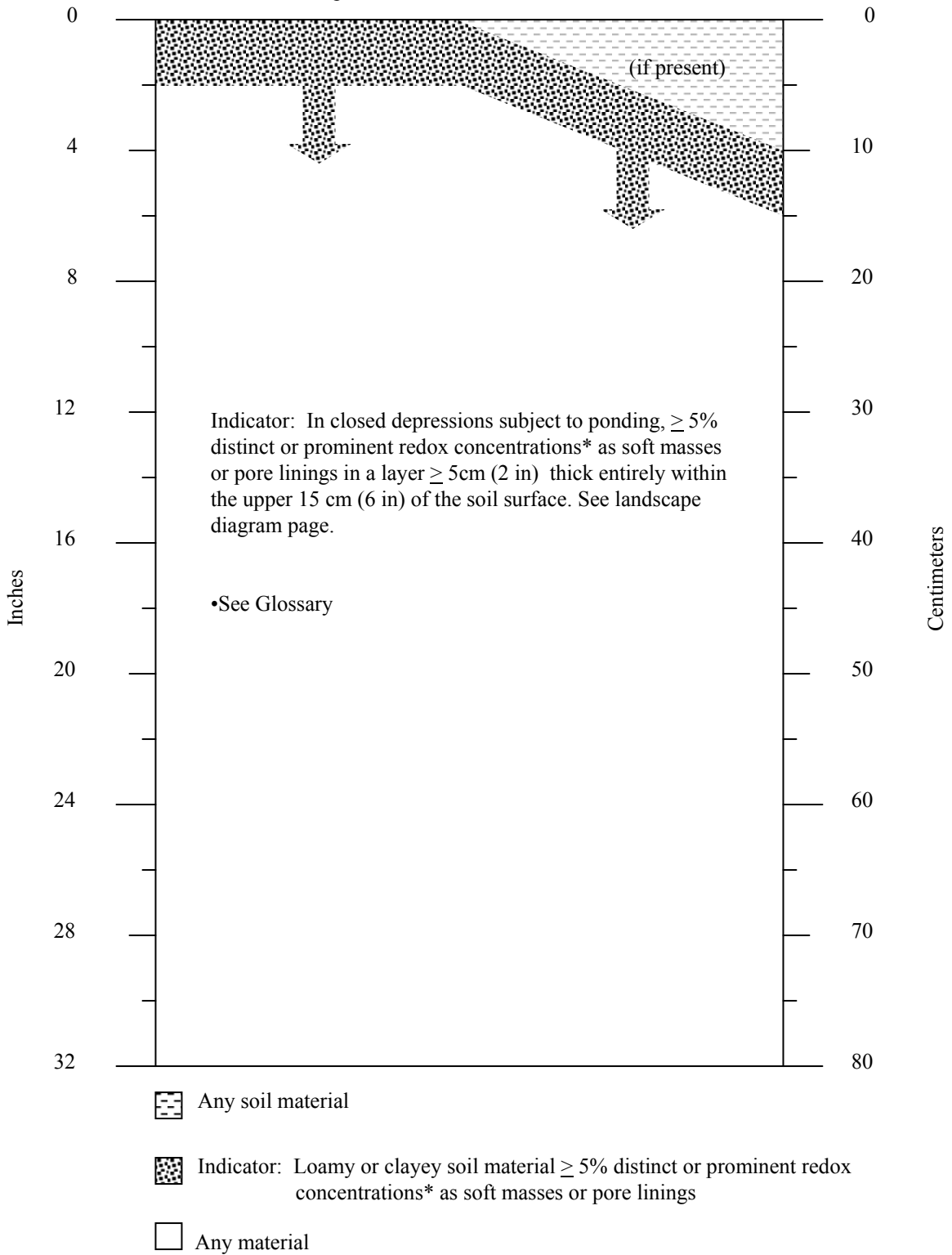
Measure depths from the muck or mineral soil surface



## F8. Redox Depressions

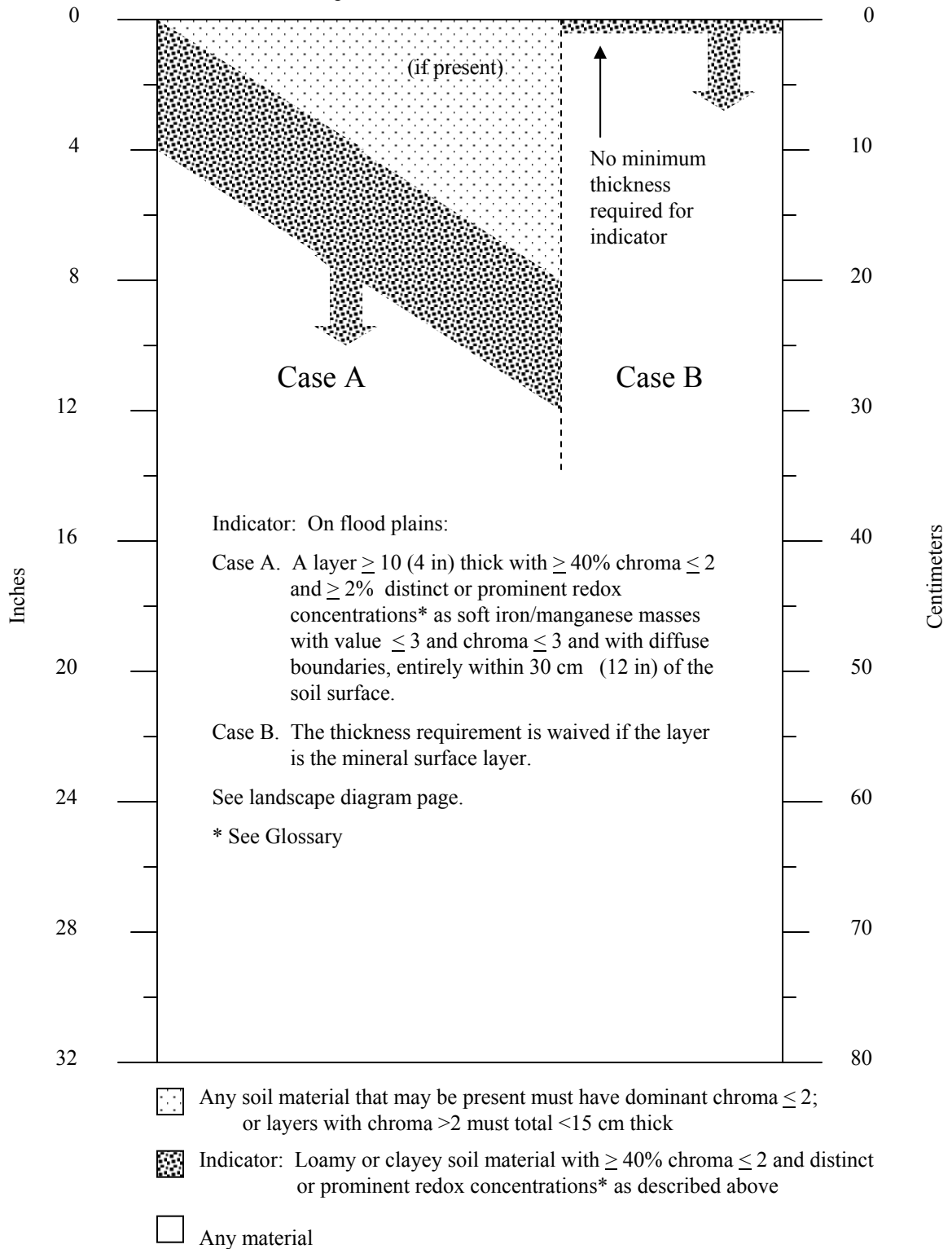
For use in all Mid-Atlantic LRRs

Measure depths from the muck or mineral soil surface



## F12. Iron/Manganese Masses

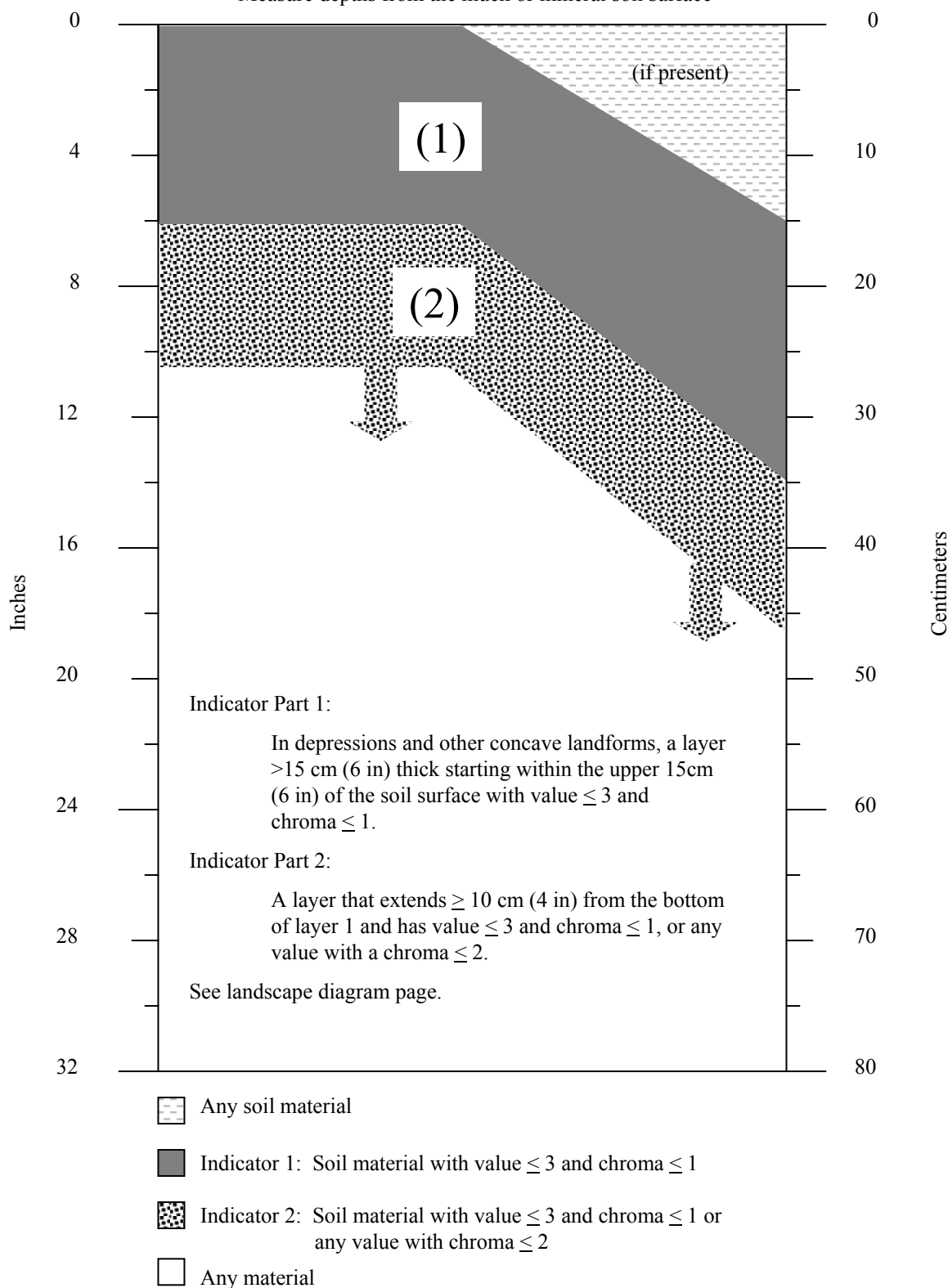
For use in LRRs N, P, and T, and for testing in LRR S  
Measure depths from the muck or mineral soil surface



# F13. Umbric Surface

For use in LRRs P and T

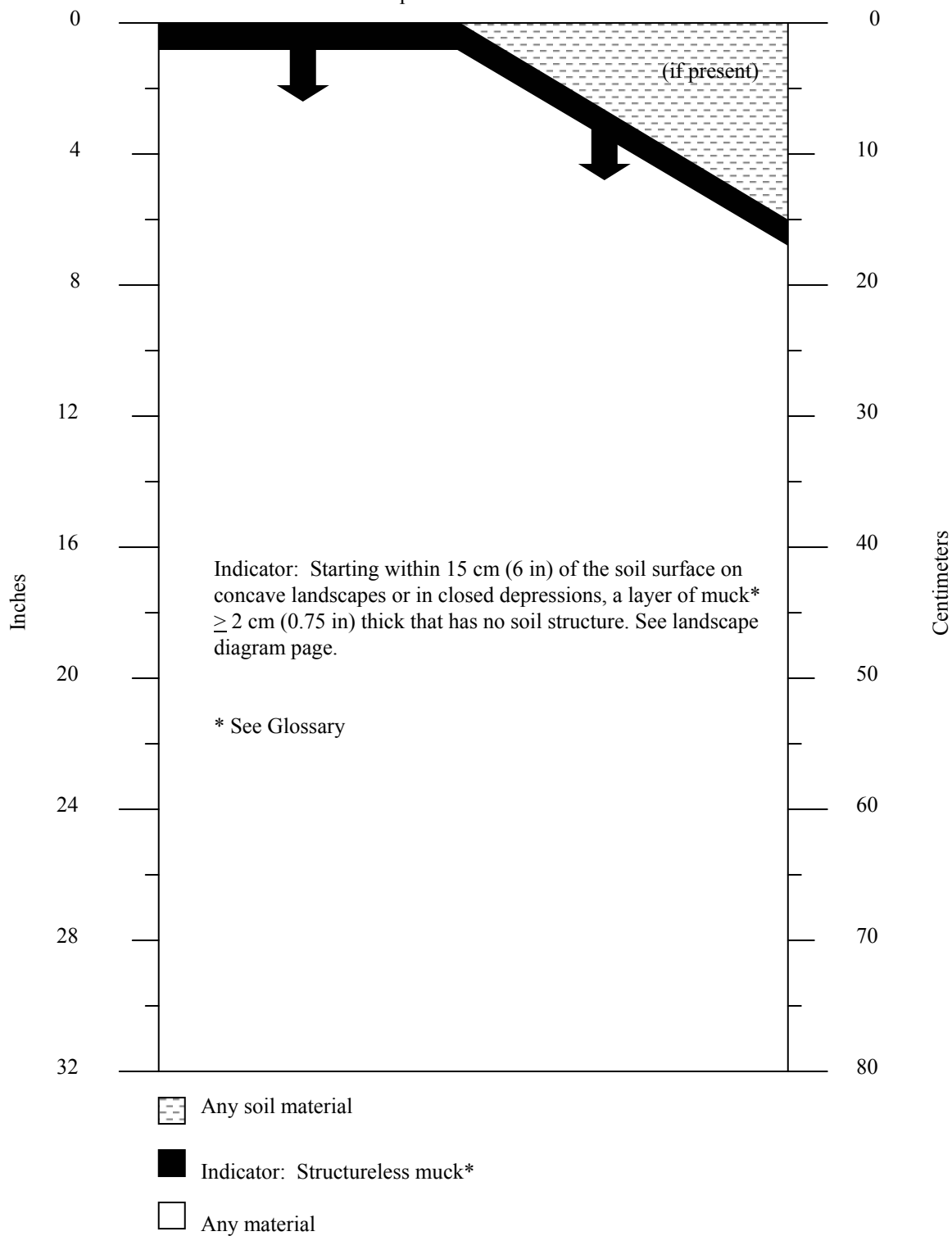
Measure depths from the muck or mineral soil surface



## TA2. Structureless Muck

For testing in MLRAs 141, 143, 144b, 145, and 146 of LRR R

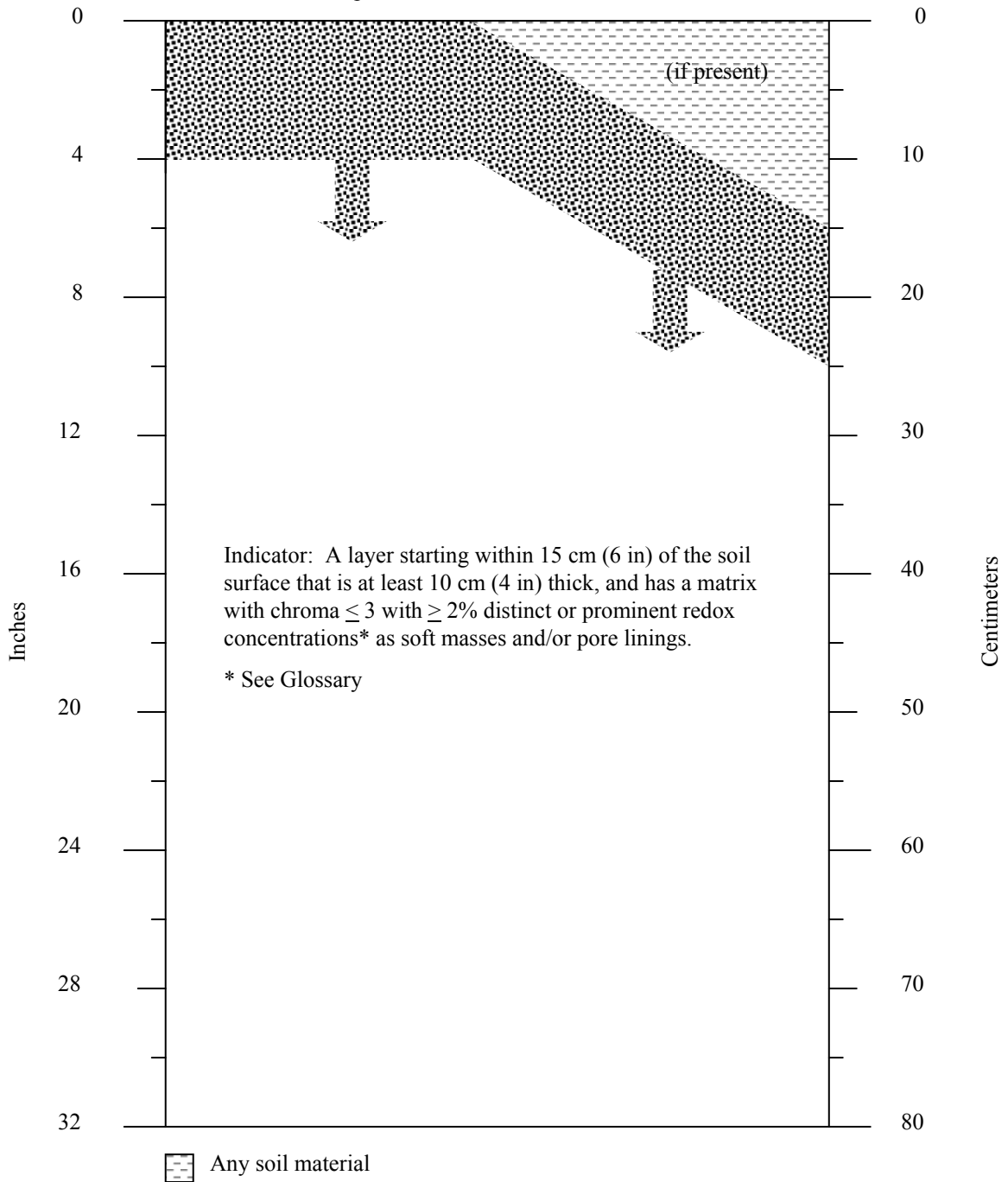
Measure depths from the soil surface



# TS5. Chroma 3 Sandy Redox

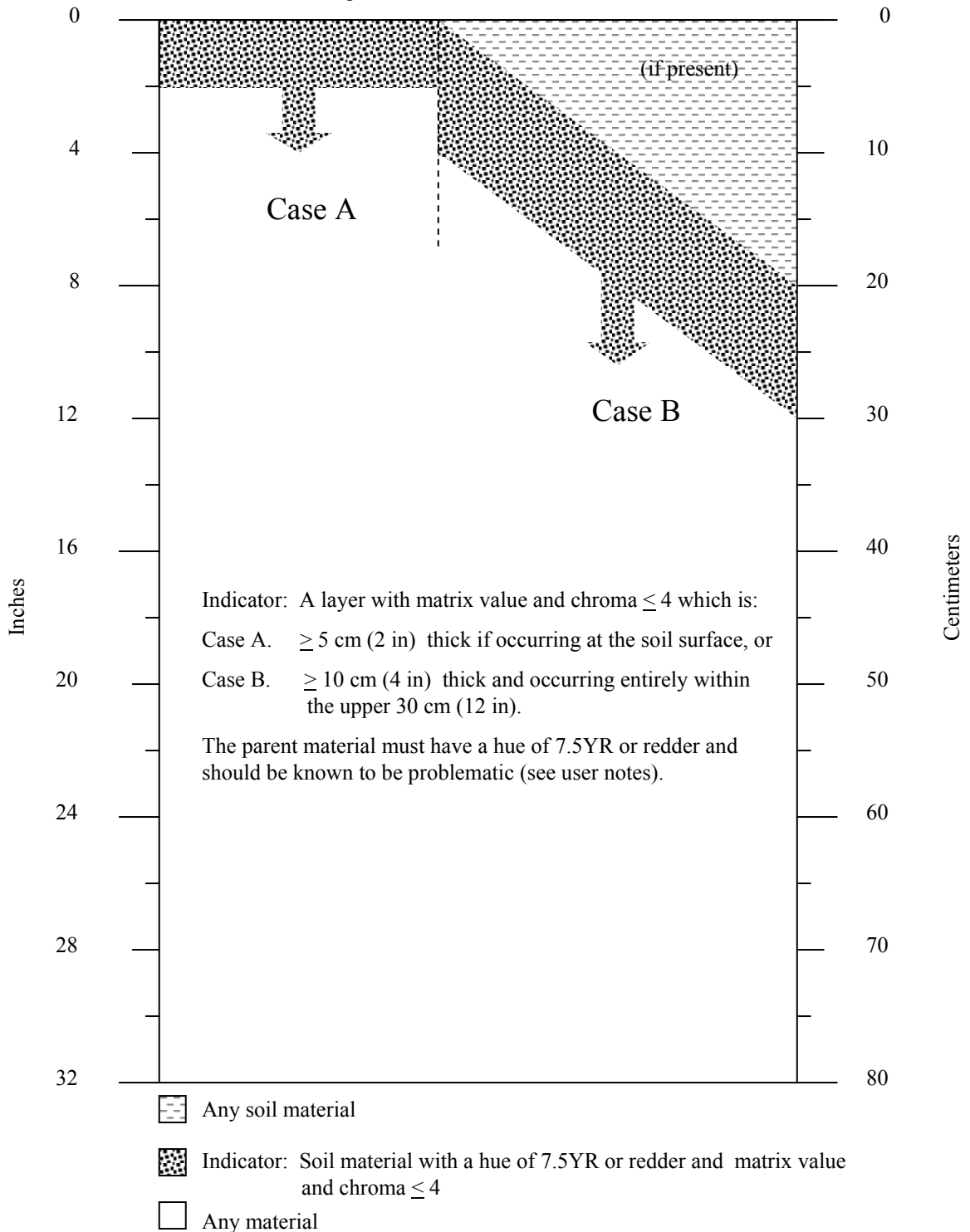
For testing in LRR L and R

Measure depths from the muck or mineral soil surface



## TF2. Red Parent Material

For testing in all LRRs with red parent material  
Measure depths from the muck or mineral soil surface

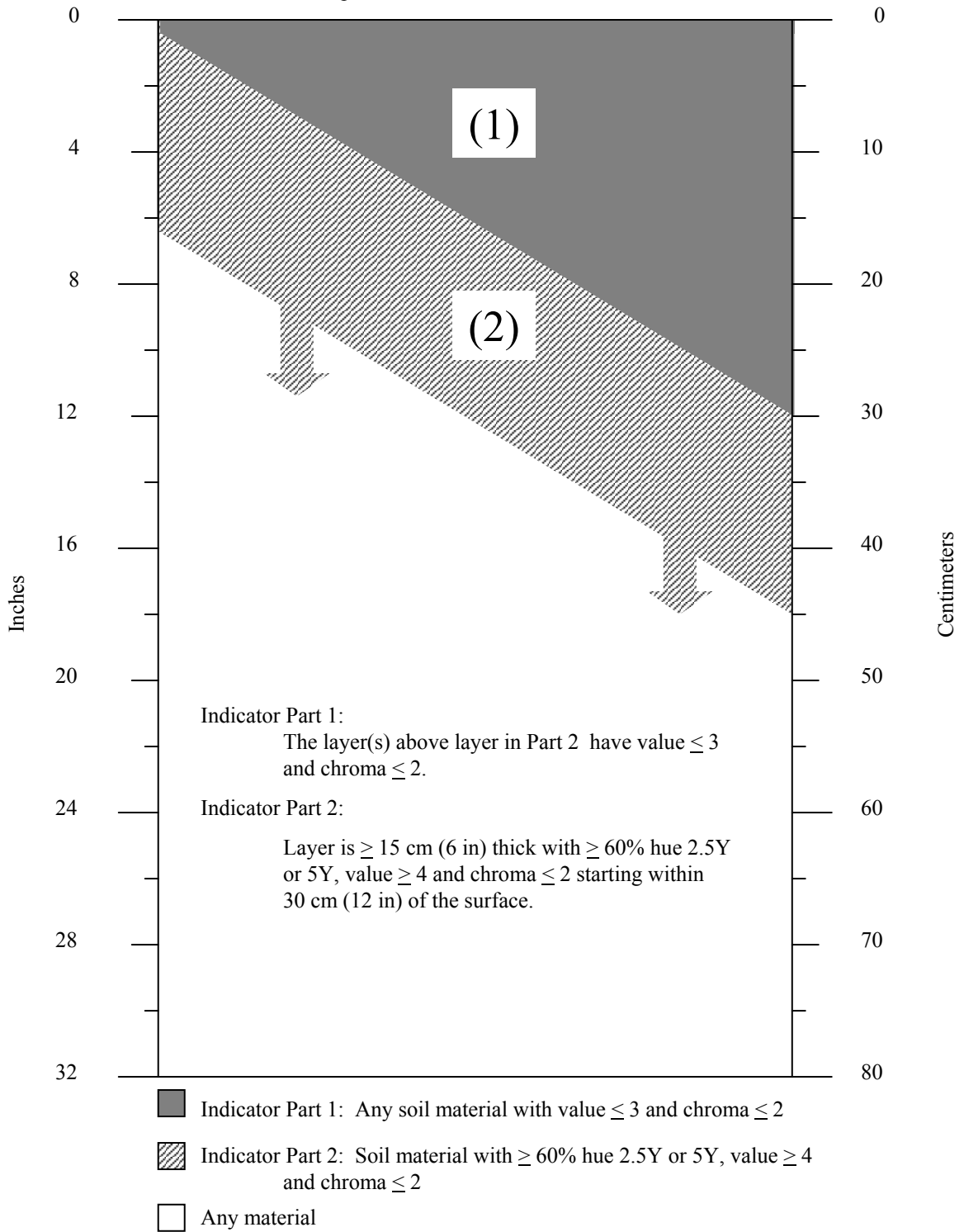




# TF4. 2.5Y/5Y Below Dark Surface

For testing in LRR N, P, S, T

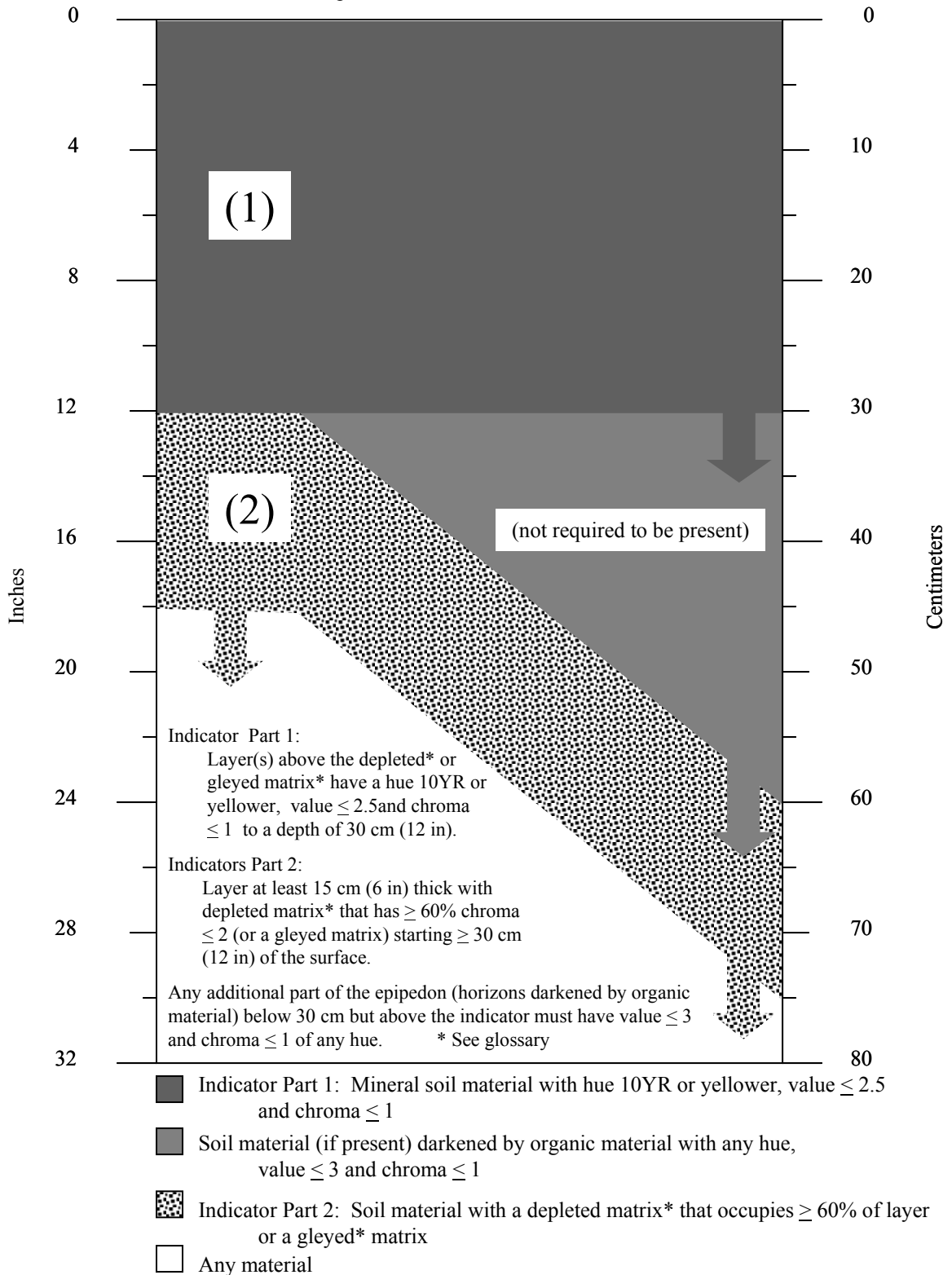
Measure depths from the muck or mineral soil surface



# TF7. Thick Dark Surface 2/1

For testing in LRRs L, N, R, S

Measure depths from the muck or mineral soil surface



# TF10. Alluvial Depleted Matrix

For testing in LRRs N and S

Measure depths from the muck or mineral soil surface

